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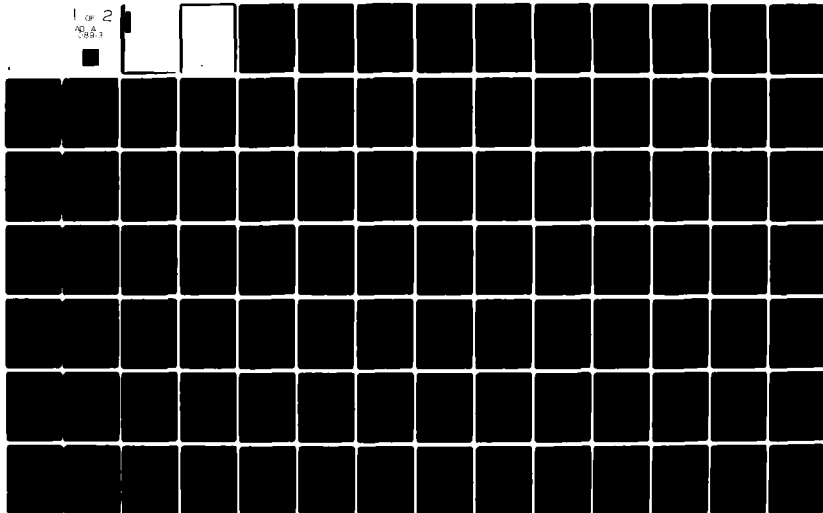
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AMPHIBIOUS LOGISTICS SUPPORT ASHORE (ALSA) (A COMPUTER SIMULATI--ETC(U)
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(Block 19 continued)

General Purpose Simulation System
 Shore Party
 Lighterage
 Construction Equipment
 Breakbulk Cargo
 Containerized Cargo

Cargo Handling Equipment
 Assault Echelon Supply
 Assault Follow-On Echelon Supply
 Force Resupply for Mission Duration
 Square and Outsized Cargo

(Block 20 continued)

and cargo handling equipment along with the respective operational characteristics, as well as construction requirements, and a schedule of cargo delivered to the beach.

Model output consists of equipment requirements and utilization, the completion times for all construction projects, and a compilation of all cargo delivered as a function of time. The model output is designed to assist in the assessment of logistics requirements for amphibious assault operations.

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ABSTRACT

The ALSA (Amphibious Logistics Support Ashore) computer program simulates the construction and cargo delivery functions required to support the logistical component of a Marine Corps amphibious assault at the Marine Amphibious Force (MAF) level. Input consists of either available or baseline quantities of each type of construction equipment and cargo handling equipment along with the respective operational characteristics, as well as construction requirements, and a schedule of cargo delivered to the beach.

Model output consists of equipment requirements and utilization, the completion times for all construction projects, and a compilation of all cargo delivered as a function of time. The model output is designed to assist in the assessment of logistics requirements for amphibious assault operations.

ADMINISTRATIVE INFORMATION

This work was funded by the Research and Development Division of the Naval Supply Systems Command (043), Washington, D.C. 20390. The work was accomplished in cooperation with, and monitored by, LT. COL. James Medis of the Plans and Studies Division, Development Center, MCDEC, Quantico, VA 22134. This project was internally (DTNSRDC) controlled under Program Element 62760N, Task Area RF 53531091, and Work Unit 1800-005.

EXECUTIVE SUMMARY

Statement of the Problem

Within the Amphibious Logistics Support Ashore (ALSA) Program, a mechanism is required with which to evaluate the procedures and equipment used to support the logistical component of a Marine Corps amphibious assault. This method should be relatively inexpensive and capable of readily accepting changes.

Technical Approach

A computer simulation program, designated ALSA, was developed which considers the following operations:

- Arrival of the shore party
- Delivery ashore of construction equipment
- Construction of the Beach Support Area (BSA), Main Supply Routes (MSR), Logistics Support Area (LSA), Ammunition Supply Points (ASP), and Amphibious Assault Fuel System (AAFS)
- Unloading cargo from lighterage at the beach
- Loading cargo onto trucks at the beach
- Delivering cargo to its appropriate storage area
- Unloading and unstuffing cargo at the appropriate storage area
- Return to the beach of empty trucks and empty containers

The program was written in GPSS^{1*} (General Purpose Simulation System), a simulation programming language used to build computer models for discrete event simulations (for reproducing the dynamic behavior of systems in which changes of state occur at discrete points in time).

The simulation output consists of completion times for all construction projects involved in the amphibious assault, and a compilation of cargo delivered by type, as a function of time.

ALSA was designed for use primarily in the analysis of Marine Amphibious Force (MAF) size operations.

*A complete listing of references is given on page 137.

1.0 INTRODUCTION

The REACT² computer simulation model at DTNSRDC has been used to examine the transportation of the Assault Follow-On Echelon portion of a Marine Corps landing force from embarkation ports to the Amphibious Operations Area (AOA). The Assault Follow-On Echelon (AFOE) was loaded at a port in CONUS, transported over an ocean route, and unloaded at the AOA. The force was delivered ashore by means of landing craft.

Since the logical extension of this previous work was the examination of the logistical operations ashore, and since at the same time the Civil Engineering Laboratory (CEL) in Port Hueneme, California, was examining hardware to be used in the shoreside operations, it was decided that an investigation of the logistics operations ashore would be beneficial.

A computer simulation model was determined to be the most appropriate tool for studying the logistics associated with an amphibious assault operation. This model may be used to examine the performance of the supporting logistical system and to determine the differing effectiveness of the system upon changing either operational procedures or the numbers and types of equipment available. Such a tool will be an extremely valuable aid in future planning.

The ALSA computer simulation has been written to fulfill this requirement. It is written in the GPSS simulation language and is currently in use at the David W. Taylor Naval Ship Research and Development Center (DTNSRDC). This report describes the ALSA program and the details and procedures required for its use.

2.0 ALSA DESCRIPTION

2.1 SYSTEM DEFINITION

The Amphibious Logistics Support Ashore (ALSA) System provides the capability to store and handle the petroleum, oil and lubricants (POL), ammunition, and general cargo required in support of a Marine Amphibious Force (MAF) during both the amphibious assault phase and the subsequent operations ashore.

The Beach Support Area (BSA) is used for the storage of supplies during the initial phase of the operation. Roads (the Main Supply Routes) are subsequently constructed leading from the beach to the Rear Support Area, which consists of the Amphibious Assault Fuel System (AAFS), the Logistics Support Area (LSA), and the Ammunition Supply Points (ASP). When completed, these three areas take over the storage functions which were previously handled by the BSA.

The AAFS is used for the storage of bulk POL. The LSA provides storage for all palletized and containerized cargo other than ammunition. The ASP is used for the storage of all ammunition.

2.2 SCENARIO

The scenario selected for the ALSA simulation model opens with the amphibious landing of a MAF on an undeveloped beach. The shore party arrives with the necessary construction equipment and maps out the beach. The construction required for the logistical component of the operation begins with the BSA. After the BSA is finished, the construction of the Rear Support Area and of the connecting roadways is started. At this time lighters begin arriving with the cargo required ashore, where it is unloaded from the lighters, transported to the appropriate storage area (BSA, AAFS, LSA, or ASP), and stored.

Detailed descriptions of the construction and cargo delivery scenarios are found in Sections 4.0 and 5.0, respectively.

2.3 EQUIPMENT

Two categories of equipment are required by the ALSA system: the construction equipment, and the cargo handling equipment.

2.3.1 Construction Equipment

The construction equipment is delivered ashore by lighters during the first stages of the landing operation. The construction equipment consists of the following items:

- Scrapers
- Scoop Loaders
- Dump trucks
- Rollers
- Graders
- Surfacers
- Bulldozers
- Backhoes

2.3.2 Cargo Handling Equipment

The cargo handling equipment is required for handling the supplies needed to support the operation. The supplies are delivered ashore by lighterage after enough construction has been completed to make sufficient storage areas available. The cargo handling equipment is listed in Table 1.

TABLE 1 - CARGO HANDLING EQUIPMENT

No.	Description
1	Cranes at AAFS
2	Towing equipment
3	Beach forklift for general cargo
4	Beach forklift for POL
5	Beach forklift for ammo
6	BSA forklift for general cargo
7	BSA forklift for POL
8	BSA forklift for ammo
9	Flatbed trucks
10	LSA forklift for general cargo
11	LSA forklift for POL
12	ASP 1 forklift for ammo
13	Beach container lift
14	BSA container lift
15	BSA unstuffing equipment
16	LSA container lift
17	LSA unstuffing equipment
18	ASP container lift
19	ASP unstuffing equipment
20	Cranes at beach
21	Cranes at BSA
22	Cranes at LSA
23	ASP 2 forklift for ammo
24	ASP 3 forklift for ammo
25	ASP 4 forklift for ammo
26	Flatbed trucks for breakbulk cargo
27	Flatbed trucks for containerized cargo

3.0 SUBSYSTEM DESCRIPTIONS

The ALSA computer simulation model considers the following three functional subsystems:

Transportation

Engineering

Supply

These subsystems comprise the logistical support component of the amphibious operation.

3.1 TRANSPORTATION

The function of the transportation subsystem is the delivery of material required ashore. This material falls into three general classes:

Construction equipment

Cargo handling equipment

Initial supply and resupply

The construction equipment and the cargo handling equipment have been discussed in Section 2.3.

The delivery of supplies begins after sufficient onshore construction has been completed to allow for its receipt and after sufficient cargo handling equipment has been delivered ashore to handle the incoming materiel. The supplies are delivered to the shore by lighters. The supplies consist of twelve distinct types, as listed in Table 2.

3.2 ENGINEERING

The function of the engineering subsystem is the construction of all roads and storage areas required ashore.

3.2.1 Beach Support Area

The Beach Support Area (BSA), consisting of beach dumps for the storage of materiel, is the first construction project undertaken. Supplies required for support of the Assault Echelon (AE), the initial landing force, are delivered to the BSA as soon as feasible.

TABLE 2 - GENERAL SUPPLY

Type No.	Description
1	Breakbulk, general cargo
2	Breakbulk, petroleum, oil, and lubricants (POL)
3	Breakbulk, ammunition (ammo)
4	Containerized general cargo, to be unstuffed
5	Containerized ammunition, to be unstuffed
6	Containerized drum POL, to be unstuffed
7	Containerized general cargo, not to be unstuffed
8	Containerized ammunition, not to be unstuffed
9	Containerized drum POL, not to be unstuffed
10	Square, self powered outsized cargo, on wheels
11	Square, non-powered outsized cargo, on wheels
13	Outsized cargo

3.2.2 Main Supply Routes

The Main Supply Routes (MSR) are the roads leading from the beach to the inland storage areas.

3.2.3 Amphibious Assault Fuel System

The Amphibious Assault Fuel System (AAFS) consists of four inland storage areas designed for large quantities of bulk POL. Within each such area, the POL is stored in large containers, each one surrounded by a berm and separated from the other containers. Bulk POL is not delivered ashore until the AAFS is capable of receiving it. There is no provision for preliminary storage of bulk POL at the BSA. The ALSA simulation model does not presently have the capability to simulate the delivery ashore of bulk POL.

3.2.4 Logistics Support Area

The Logistics Support Area (LSA) is generally inland and acts as the main supply control area. The LSA takes over the supply function from the BSA for general cargo in either palletized or containerized form, and for breakbulk and containerized POL. After the construction of the LSA is completed, supplies can be routed to it, and the BSA is gradually phased out with respect to the storage of general cargo and non-bulk POL.

3.2.5 Ammunition Supply Points

The Ammunition Supply Points (ASP) are inland areas designed to take over the ammunition storage function from the BSA. After the construction of the ASP is completed, supplies may be routed to it, and the BSA is phased out with respect to the storage of ammunition.

3.3 SUPPLY

The supply function consists of the distribution, storage, and inventory of all material required for the operation. The supply is delivered ashore aboard lighterage as soon as the BSA is ready to receive cargo. The twelve types of supply are listed in Table 2.

The delivery ashore of supply is generally broken down into three categories.

- Assault Echelon Supply
- Assault Follow-On Echelon Supply
- Force Resupply For Mission Duration

The delivery of the Assault Echelon Supply is started as soon as the BSA is capable of receiving cargo. In general, delivery of the Assault Echelon Supply will begin one day after the operation starts.

The delivery of the Assault Follow-On Echelon Supply generally commences about five days into the operation. By this time, the inland storage areas should be completed, the BSA will be phased out, and cargo will be moving over the Main Supply Routes to the inland dumps. Specific delivery times and construction completion times will vary with the specific situations examined.

The Force Resupply For Mission Duration generally starts about fifteen days into the operation. It supplies all materiel required by the MAF until the termination of the operation.

4.0 ENGINEERING OPERATIONS

4.1 INITIAL LANDING

The scenario selected for the ALSA simulation model opens with the amphibious landing of a Marine Amphibious Force (MAF) on an undeveloped beach. The shore party arrives with the necessary construction equipment, maps out the beach, and starts the construction required for the logistics component of the operation.

4.2 BEACH SUPPORT AREA

The Beach Support Area (BSA) is the first major logistical support component to be constructed. The BSA serves until such time as subsequent construction of the LSA and ASP can be completed farther inland. There are five components within the BSA. These are the BSA Roads, Dump 1 (ammo), Dump 2 (personal effects and construction materiel), Dump 3 (POL), and Dump 4 (general cargo).

Each construction operation has a priority for the use of equipment, with the priorities running from P = 1 (highest) to P = 33 (lowest).

The BSA roads have the highest priority (P = 1) for use of the available construction equipment. In descending order, the remaining priorities are, for Dump 1, P = 2; for Dump 2, P = 3; for Dump 3, P = 4; for Dump 4, P = 5.

4.2.1 Construction of BSA Roads

The first component for the BSA Roads construction is the clearing operation, performed by the bulldozers. This is followed by the stripping operation (scrapers), subsurface filling (dump trucks), subsurface compacting (rollers), grading (graders), surface filling (dump trucks), and surface compacting (rollers).

4.2.2 Construction of Dump 1

Dump 1 is first cleared (bulldozers), then material for berms is deposited (scrapers), and earth is piled (scoop loaders) to shape the berms.

4.2.3 Construction of Dumps 2, 3, and 4

The construction of Dump 2, Dump 3, and Dump 4 consists of one clearing operation each by bulldozers.

4.3 MAIN SUPPLY ROUTES

The Main Supply Routes (MSR) are the roads within the logistics complex which are used for transportation of construction equipment and supplies from the beach to supply areas farther inland. The Main Supply Routes are constructed in two phases. First temporary roads are cleared to allow an initial flow of materiel to begin. Later, when the construction equipment is no longer required for the development of inland dump areas, the permanent roads are completed. Priorities for the construction of the various MSR components are, for Temporary MSR 1, P = 6; Temporary MSR 2, P = 7; Temporary MSR 3, P = 8; Temporary MSR 4, P = 9; Permanent MSR 1, P = 30; Permanent MSR 2, P = 31; Permanent MSR 3, P = 32; Permanent MSR 4, P = 33.

4.3.1 Construction of Temporary Main Supply Routes

The construction of each of the four components of the Temporary Main Supply Routes is similar. For each of the four components, the first operation is clearing (bulldozers), followed by compacting (rollers) and grading (graders).

4.3.2 Construction of Permanent Main Supply Routes

For Permanent Main Supply Routes 1 and 2, the first operation is stripping (scrapers), followed by compacting (rollers), grading (graders), and surfacing (surfacers). For Permanent Main Supply Routes 3 and 4, the sequence of operations is stripping (scrapers), compacting (rollers), and grading (graders).

4.4 AMPHIBIOUS ASSAULT FUEL SYSTEM

The Amphibious Assault Fuel System (AAFS) is used for the inland storage of outsized POL tanks. It is made up of four components. The

components and their corresponding priorities for the use of construction equipment are: AAFS 1, P = 10; AAFS 2, P = 11; AAFS 3, P = 12; AAFS 4, P = 13.

For each component of the AAFS, the sequence of construction operations is clearing (bulldozers), grading (graders), depositing berm material (scrapers), piling earth at berms (scoop loaders), and shaping berms (graders).

4.5 LOGISTICS SUPPORT AREA

The Logistics Support Area (LSA) is used for the inland storage of general cargo in containerized and palletized form. The LSA consists of seven components. The components and their corresponding priorities for the use of construction equipment are: Storage Area 1, P = 14; Storage Area 2, P = 15; Storage area 3, P = 16; Unstuffing Area (UA), P = 17; Truck Loading Area (TLA), P = 18; Pallet Staging Area (PSA), P = 19; Administrative Area (AA), P = 20.

4.5.1 Construction of Container Unstuffing Area and Storage Areas 1, 2, and 3.

For the Container Unstuffing Area and Storage Areas 1, 2, and 3, the first operation is clearing (bulldozers), followed by stripping (scrappers). After stripping, filling (dump trucks) and compacting (rollers) are started at the same time. After the compacting is finished, the area is graded (graders). When both the filling and grading are finished, the surfacing (surfacers) is done.

4.5.2 Construction of Truck Loading Area

The Truck Loading Area is first cleared (bulldozers). Then filling (dump trucks) and compacting (rollers) are started at the same time. After the compacting is finished, the area is graded (graders).

4.5.3 Construction of Pallet Staging Area

The construction of the Pallet Staging Area is done by first clearing (bulldozers) and then grading (graders).

4.5.4 Construction of Administrative Area

The Administrative Area is first cleared (bulldozers). Then it is stripped (scrapers), after which filling (dump trucks) and compacting (rollers) are started at the same time. After the compacting is finished, the area is graded (graders).

4.6 AMMUNITION SUPPLY POINTS

The Ammunition Supply Points (ASP) comprise an area used exclusively for the inland storage of ordnance. It is made up of four components. During ASP construction, the priorities for use of equipment are: Road A1 (for ASP 1), P = 21; Road A2 (for ASP 2), P = 22; Road A3 (for ASP 3), P = 23; Road A4 (for ASP 4), P = 24; Revetment A1 (for ASP 1), P = 25; Revetment A2 (for ASP 2), P = 26; Revetment A3 (for ASP 3), P = 27; Revetment A4 (for ASP 4), P = 28; Perimeter (for all ASP), P = 29.

4.6.1 Construction of Roads A1, A2, A3, and A4

Roads A1, A2, A3, and A4 are first cleared (bulldozers). Then compacting (rollers) and stripping (scrapers) are started at the same time. After the compacting is finished, the grading (graders) is done.

4.6.2 Construction of Revetments A1, A2, A3, and A4

Revetments A1, A2, A3, and A4 are first cleared (bulldozers). Then, in sequence, material is deposited for the berms (scrapers), earth is piled at the berms (scoop loaders), and the berms are shaped (graders).

4.6.3 Construction of Perimeter

The construction of the Perimeter of the ASP is accomplished by the one operation of clearing (bulldozers).

5.0 SUPPLY/TRANSPORTATION OPERATIONS

5.1 TYPES OF CARGO

The program considers twelve distinct types of cargo, as defined in Table 2.

5.2 CARGO DELIVERY ASHORE

The amount of each type of cargo delivered ashore is defined by the user of the ALSA simulation model. Cargo is delivered to the beach by means of lighterage. Each lighter contains only one type of cargo. On arrival at the shoreline each lighter is unloaded, and the cargo is routed to the appropriate storage area.

5.2.1 Delivery of Breakbulk Cargo

Cargo types 1, 2, and 3, as defined in Section 5.1, constitute the three types of breakbulk cargo which may be required during the operation.

As each lighter containing one type of breakbulk cargo arrives at the beach, it is unloaded by a forklift, and the cargo is loaded onto a flatbed truck. The next operation depends on the type of cargo and the completion status of the inland dump areas.

If neither the LSA nor the ASP has been completed, the truckload of cargo proceeds to the BSA. The truck is then unloaded by a forklift which moves the cargo to storage.

If the LSA has been completed, and if the cargo is type 1 or type 2, the truckload of cargo proceeds to the LSA. The truck is then unloaded by a forklift which moves the cargo to storage.

If the ASP has been completed, and if the cargo is type 3, a check is made to determine which of the four ASP's will accept the cargo for storage. First ASP 1 is checked to determine if it is full. If ASP 1 is not full, then it is selected to accept the cargo. If ASP 1 is full, then ASP 2 is similarly checked. If ASP 2 is full, then ASP 3 is checked for fullness. The first of the three preceding ASP's found to be not full is selected to receive the cargo. If the preceding three ASP's

are full, then the cargo will be delivered to ASP 4. After the selection of the appropriate ASP, the truckload of cargo proceeds there, and the cargo is unloaded by a forklift and moved to storage.

5.2.2 Delivery of Containerized Cargo

Cargo types 4, 5, 6, 7, 8, and 9 constitute the six types of containerized cargo which may be required during the operation.

As each lighter containing one type of containerized cargo arrives at the beach, it is unloaded by a container lift, and the cargo is loaded onto a flatbed truck. The next operation depends on the type of cargo and the completion status of the inland storage areas.

If neither the LSA nor the ASP has been completed, the truckload of cargo proceeds to the BSA. The truck is then unloaded by a container lift. If the cargo is type 4, 5, or 6, the container is unstuffed by the unstuffing equipment. A forklift then moves the unstuffed cargo to storage.

If the LSA has been completed and the cargo is type 4, 6, 7, or 9, the truckload of cargo proceeds to the LSA. The truck is then unloaded by a container lift. If the cargo is type 7 or type 9, the container is stored. If the cargo is type 4 or type 6, the container is unstuffed by the unstuffing equipment. A forklift then moves the unstuffed cargo to storage.

If the ASP has been completed and the cargo is type 5 or type 8, the truckload of cargo proceeds to the ASP. There the truck is unloaded by a container lift. If the cargo is type 8, the container is stored. If the cargo is type 5, the container is unstuffed by the unstuffing equipment. A forklift then moves the unstuffed cargo to storage.

5.2.3 Delivery of Square and Outsized Cargo

Cargo types 10 and 11 constitute the two types of square cargo, and cargo type 13 the one type of outsized cargo, which may be required during the operation. What happens after a lighter arrives at the beach with cargo type 10, 11, or 13 depends upon[#] the type of cargo and the completion status of the LSA.

If the cargo is type 10 and the LSA is completed, the cargo moves from the lighter to the LSA under its own power. If the LSA is not yet completed, the cargo moves under its own power from the lighter to the BSA.

If the cargo is type 11, it is first unloaded from the lighter by the towing equipment. If the LSA has been completed, the cargo is towed to the LSA. If the LSA has not yet been completed, the cargo is towed to the BSA.

If the cargo is type 13, the cargo is unloaded from the lighter by a crane and loaded onto a flatbed truck. If the LSA has been completed, the truck moves to the LSA where the cargo is offloaded by a crane. If the LSA has not yet been completed, the truck proceeds to the BSA where it is unloaded by a crane.

6.0 THE ALSA SIMULATION MODEL

The ALSA simulation model is a computer program which implements the construction description in Section 4.0 and the cargo delivery description in Section 5.0. It is written in the GPSS (General Purpose Simulation System) language, which is designed to reproduce the dynamic behavior of systems in which changes of state occur at discrete points in time.

A program listing of the ALSA model is contained in Appendix A of this report. This listing may be regarded as a specific sample run, since the input data to the program, which determine the uniqueness of a given run, are imbedded in the program and therefore appear in the listing.

The ALSA model is currently operational on the CDC 6700 computer at DTNSRDC.

7.0 INPUT TO ALSA MODEL

The ALSA model embodies a number of parameters which may be changed from run to run in order to examine the effects of differing conditions under which the basic scenario may be simulated.

7.1 CONSTRUCTION MATRIX AAA

Data required for the simulation of the construction part of the model are found primarily in matrix AAA, whose elements are defined as follows:

<u>Element</u>	<u>Definition</u>
AAA(2,1)	Area cleared for BSA Roads (sq ft)
AAA(2,2)	Rate at which one bulldozer clears BSA Roads (sq ft/min)
AAA(2,3)	Number of bulldozers used to clear BSA Roads
AAA(3,1)	Area cleared for BSA Dump 1 (sq ft)
AAA(3,2)	Rate at which one bulldozer clears BSA Dump 1 (sq ft/min)
AAA(3,3)	Number of bulldozers used to clear BSA Dump 1
AAA(4,1)	Area cleared for BSA Dump 2 (sq ft)
AAA(4,2)	Rate at which one bulldozer clears BSA Dump 2 (sq ft/min)
AAA(4,3)	Number of bulldozers used to clear BSA Dump 2
AAA(5,1)	Area cleared for BSA Dump 3 (sq ft)
AAA(5,2)	Rate at which one bulldozer clears BSA Dump 3 (sq ft/min)
AAA(5,3)	Number of bulldozers used to clear BSA Dump 3
AAA(6,1)	Area cleared for BSA Dump 4 (sq ft)
AAA(6,2)	Rate at which one bulldozer clears BSA Dump 4 (sq ft/min)
AAA(6,3)	Number of bulldozers used to clear BSA Dump 4
AAA(7,1)	Area involved in depositing material for berms at BSA Dump 1 (sq ft)

<u>Element</u>	<u>Definition</u>
AAA(7,2)	Rate at which one scraper deposits material for berms at BSA Dump 1 (sq ft/min)
AAA(7,3)	Number of scrapers used to deposit material for berms at BSA Dump 1
AAA(8,1)	Area involved in piling earth and shaping berms for BSA Dump 1 (sq ft)
AAA(8,2)	Rate at which one scoop loader piles earth and shapes berms for BSA Dump 1 (sq ft/min)
AAA(8,3)	Number of scoop loaders used to pile earth and shape berms for BSA Dump 1
AAA(9,1)	Area stripped for BSA Roads (sq ft)
AAA(9,2)	Rate at which one scraper strips BSA Roads (sq ft/min)
AAA(9,3)	Number of scrapers used to strip BSA Roads
AAA(10,1)	Area filled for subsurface of BSA Roads (sq ft)
AAA(10,2)	Rate at which one dump truck accomplishes subsurface filling of BSA Roads (sq ft/min)
AAA(10,3)	Number of dump trucks used to accomplish subsurface filling of BSA Roads
AAA(11,1)	Area compacted for subsurface of BSA Roads (sq ft)
AAA(11,2)	Rate at which one roller does subsurface compacting of BSA Roads (sq ft/min)
AAA(11,3)	Number of rollers used for subsurface compacting of BSA Roads
AAA(12,1)	Area graded for BSA Roads (sq ft)
AAA(12,2)	Rate at which one grader grades BSA Roads (sq ft/min)
AAA(12,3)	Number of graders used to grade BSA Roads
AAA(13,1)	Area filled for surface of BSA Roads (sq ft)
AAA(13,2)	Rate at which one dump truck does surface filling of BSA Roads (sq ft/min)

<u>Element</u>	<u>Definition</u>
AAA(13,3)	Number of dump trucks used for surface filling of BSA Roads
AAA(14,1)	Area compacted for surface of BSA Roads (sq ft)
AAA(14,2)	Rate at which one roller does surface compacting of BSA Roads (sq ft/min)
AAA(14,3)	Number of rollers used for surface compacting of BSA Roads
AAA(16,1)	Area cleared for Temporary MSR 1 (sq ft)
AAA(16,2)	Rate at which one bulldozer clears Temporary MSR 1 (sq ft/min)
AAA(16,3)	Number of bulldozers used to clear Temporary MSR 1
AAA(17,1)	Area cleared for Temporary MSR 2 (sq ft)
AAA(17,2)	Rate at which one bulldozer clears Temporary MSR 2 (sq ft/min)
AAA(17,3)	Number of bulldozers used to clear Temporary MSR 2
AAA(18,1)	Area cleared for Temporary MSR 3 (sq ft)
AAA(18,2)	Rate at which one bulldozer clears Temporary MSR 3 (sq ft/min)
AAA(18,3)	Number of bulldozers used to clear Temporary MSR 3
AAA(19,1)	Area cleared for Temporary MSR 4 (sq ft)
AAA(19,2)	Rate at which one bulldozer clears Temporary MSR 4 (sq ft/min)
AAA(19,3)	Number of bulldozers used to clear Temporary MSR 4
AAA(28,1)	Area stripped for Permanent MSR 1 (sq ft)
AAA(28,2)	Rate at which one scraper strips Permanent MSR 1 (sq ft/min)
AAA(28,3)	Number of scrapers used to strip Permanent MSR 1

<u>Element</u>	<u>Definition</u>
AAA(29,1)	Area stripped for Permanent MSR 2 (sq ft)
AAA(29,2)	Rate at which one scraper strips Permanent MSR 2 (sq ft/min)
AAA(29,3)	Number of scrapers used to strip Permanent MSR 2
AAA(30,1)	Area stripped for Permanent MSR 3 (sq ft)
AAA(30,2)	Rate at which one scraper strips Permanent MSR 3 (sq ft/min)
AAA(30,3)	Number of scrapers used to strip Permanent MSR 3
AAA(31,1)	Area stripped for Permanent MSR 4 (sq ft)
AAA(31,2)	Rate at which one scraper strips Permanent MSR 4 (sq ft/min)
AAA(31,3)	Number of scrapers used to strip Permanent MSR 4
AAA(32,1)	Area compacted for Permanent MSR 1 (sq ft)
AAA(32,2)	Rate at which one roller compacts Permanent MSR 1 (sq ft/min)
AAA(32,3)	Number of rollers used to compact Permanent MSR 1
AAA(33,1)	Area compacted for Permanent MSR 2 (sq ft)
AAA(33,2)	Rate at which one roller compacts Permanent MSR 2 (sq ft/min)
AAA(33,3)	Number of rollers used to compact Permanent MSR 2
AAA(34,1)	Area compacted for Permanent MSR 3 (sq ft)
AAA(34,2)	Rate at which one roller compacts Permanent MSR 3 (sq ft/min)
AAA(34,3)	Number of rollers used to compact Permanent MSR 3
AAA(35,1)	Area compacted for Permanent MSR 4 (sq ft/min)
AAA(35,2)	Rate at which one roller compacts Permanent MSR 4 (sq ft/min)

<u>Element</u>	<u>Definition</u>
AAA(35,3)	Number of rollers used to compact Permanent MSR 4
AAA(36,1)	Area graded for Permanent MSR 1 (sq ft)
AAA(36,2)	Rate at which one grader grades Permanent MSR 1 (sq ft/min)
AAA(36,3)	Number of graders used to grade Permanent MSR 1
AAA(37,1)	Area graded for Permanent MSR 2 (sq ft)
AAA(37,2)	Rate at which one grader grades Permanent MSR 2 (sq ft/min)
AAA(37,3)	Number of graders used to grade Permanent MSR 2
AAA(38,1)	Area graded for Permanent MSR 3 (sq ft)
AAA(38,2)	Rate at which one grader grades Permanent MSR 3 (sq ft/min)
AAA(38,3)	Number of graders used to grade Permanent MSR 3
AAA(39,1)	Area graded for Permanent MSR 4 (sq ft)
AAA(39,2)	Rate at which one grader grades Permanent MSR 4 (sq ft/min)
AAA(39,3)	Number of graders used to grade Permanent MSR 4
AAA(40,1)	Area surfaced for Permanent MSR 4 (sq ft)
AAA(40,2)	Rate at which one surfacer surfaces Permanent MSR 1 (sq ft/min)
AAA(40,3)	Number of surfacers used to surface Permanent MSR 1
AAA(41,1)	Area surfaced for Permanent MSR 2 (sq ft)
AAA(41,2)	Rate at which one surfacer surfaces Permanent MSR 2 (sq ft/min)
AAA(41,3)	Number of surfacers used to surface Permanent MSR 2
AAA(42,1)	Area cleared for LSA Storage Area 1 (sq ft)

<u>Element</u>	<u>Definition</u>
AAA(42,1)	Area cleared for LSA Storage Area 1 (sq ft)
AAA(42,2)	Rate at which one bulldozer clears LSA Storage Area 1 (sq ft/min)
AAA(42,3)	Number of bulldozers used to clear LSA Storage Area 1
AAA(43,1)	Area cleared for LSA Storage Area 2 (sq ft)
AAA(43,2)	Rate at which one bulldozer clears LSA Storage Area 2 (sq ft/min)
AAA(43,3)	Number of bulldozers used to clear LSA Storage Area 2
AAA(44,1)	Area cleared for LSA Storage Area 3 (sq ft)
AAA(44,2)	Rate at which one bulldozer clears LSA Storage Area 3 (sq ft/min)
AAA(44,3)	Number of bulldozers used to clear LSA Storage Area 3
AAA(45,1)	Area cleared for LSA Unstuffing Area (sq ft)
AAA(45,2)	Rate at which one bulldozer clears LSA Unstuffing Area (sq ft/min)
AAA(45,3)	Number of bulldozers used to clear LSA Unstuffing Area
AAA(46,1)	Area cleared for LSA Truck Loading Area (sq ft)
AAA(46,2)	Rate at which one bulldozer clears LSA Truck Loading Area (sq ft/min)
AAA(46,3)	Number of bulldozers used to clear LSA Truck Loading Area
AAA(47,1)	Area cleared for LSA Pallet Staging Area (sq ft)
AAA(47,2)	Rate at which one bulldozer clears LSA Pallet Staging Area (sq ft/min)
AAA(47,3)	Number of bulldozers used to clear LSA Pallet Staging Area
AAA(48,1)	Area cleared for LSA Administrative Area (sq ft)
AAA(48,2)	Rate at which one bulldozer clears LSA Administrative Area (sq ft/min)

<u>Element</u>	<u>Definition</u>
AAA(48,3)	Number of bulldozers used to clear LSA Administrative Area
AAA(49,1)	Area stripped for LSA Storage Area 1 (sq ft)
AAA(49,2)	Rate at which one scraper strips LSA Storage Area 1 (sq ft/min)
AAA(49,3)	Number of scrapers used to strip LSA Storage Area 1
AAA(50,1)	Area stripped for LSA Storage Area 2 (sq ft)
AAA(50,2)	Rate at which one scraper strips LSA Storage Area 2 (sq ft/min)
AAA(50,3)	Number of scrapers used to strip LSA Storage Area 2
AAA(51,1)	Area stripped for LSA Storage Area 3 (sq ft)
AAA(51,2)	Rate at which one scraper strips LSA Storage area 3 (sq ft/min)
AAA(51,3)	Number of scrapers used to strip LSA Storage Area 3
AAA(52,1)	Area stripped for LSA Unstuffing Area (sq ft)
AAA(52,2)	Rate at which one scraper strips LSA Unstuffing Area (sq ft/min)
AAA(52,3)	Number of scrapers used to strip LSA Unstuffing Area
AAA(53,1)	Area stripped for LSA Administrative Area (sq ft)
AAA(53,2)	Rate at which one scraper strips LSA Administrative Area (sq ft/min)
AAA(53,3)	Number of scrapers used to strip LSA Administrative Area
AAA(54,1)	Area filled for LSA Storage Area 1 (sq ft)
AAA(54,2)	Rate at which one dump truck fills LSA Storage Area 1 (sq ft/min)
AAA(54,3)	Number of dump trucks used to fill LSA Storage Area 1
AAA(55,1)	Area filled for LSA Storage Area 2 (sq ft)

<u>Element</u>	<u>Definition</u>
AAA(55,2)	Rate at which one dump truck fills LSA Storage Area 2 (sq ft/min)
AAA(55,3)	Number of dump trucks used to fill LSA Storage Area 2
AAA(56,1)	Area filled for LSA Storage Area 3 (sq ft)
AAA(56,2)	Rate at which one dump truck fills LSA Storage Area 3 (sq ft/min)
AAA(56,3)	Number of dump trucks used to fill LSA Storage Area 3
AAA(57,1)	Area filled for LSA Unstuffing Area (sq ft)
AAA(57,2)	Rate at which one dump truck fills LSA Unstuffing Area (sq ft/min)
AAA(57,3)	Number of dump trucks used to fill LSA Unstuffing Area
AAA(58,1)	Area filled for LSA Truck Loading Area (sq ft)
AAA(58,2)	Rate at which one dump truck fills LSA Truck Loading Area (sq ft/min)
AAA(58,3)	Number of dump trucks used to fill LSA Truck Loading Area
AAA(59,1)	Area filled for LSA Administrative Area (sq ft)
AAA(59,2)	Rate at which one dump truck fills LSA Administrative Area (sq ft/min)
AAA(59,3)	Number of dump trucks used to fill LSA Administrative Area
AAA(60,1)	Area compacted for LSA Storage Area 1 (sq ft)
AAA(60,2)	Rate at which one roller compacts LSA Storage Area 1 (sq ft/min)
AAA(60,3)	Number of rollers used to compact LSA Storage Area 1
AAA(61,1)	Area compacted for LSA Storage Area 2 (sq ft)
AAA(61,2)	Rate at which one roller compacts LSA Storage Area 2 (sq ft/min)
AAA(61,3)	Number of rollers used to compact LSA Storage Area 2

<u>Element</u>	<u>Definition</u>
AAA(62,1)	Area compacted for LSA Storage Area 3 (sq ft)
AAA(62,2)	Rate at which one roller compacts LSA Storage Area 3 (sq ft/min)
AAA(62,3)	Number of rollers used to compact LSA Storage area 3
AAA(63,1)	Area compacted for LSA Unstuffing Area (sq ft)
AAA(63,2)	Rate at which one roller compacts LSA Unstuffing Area (sq ft/min)
AAA(63,3)	Number of rollers used to compact LSA Unstuffing Area
AAA(64,1)	Area compacted for LSA Truck Loading Area (sq ft)
AAA(64,2)	Rate at which one roller compacts LSA Truck Loading Area (sq ft/min)
AAA(64,3)	Number of rollers used to compact LSA Truck Loading Area
AAA(65,1)	Area compacted for LSA Administrative Area (sq ft)
AAA(65,2)	Rate at which one roller compacts LSA Administrative Area (sq ft/min)
AAA(65,3)	Number of rollers used to compact LSA Administrative Area
AAA(66,1)	Area graded for LSA Storage Area 1 (sq ft)
AAA(66,2)	Rate at which one grader grades LSA Storage Area 1 (sq ft/min)
AAA(66,3)	Number of graders used to grade LSA Storage Area 1
AAA(67,1)	Area graded for LSA Storage Area 2 (sq ft)
AAA(67,2)	Rate at which one grader grades LSA Storage Area 2 (sq ft/min)
AAA(67,3)	Number of graders used to grade LSA Storage Area 2
AAA(68,1)	Area graded for LSA Storage Area 3 (sq ft)
AAA(68,2)	Rate at which one grader grades LSA Storage Area 3 (sq ft/min)

<u>Element</u>	<u>Definition</u>
AAA(68,3)	Number of graders used to grade LSA Storage Area 3
AAA(69,1)	Area graded for LSA Unstuffing Area (sq ft)
AAA(69,2)	Rate at which one grader grades LSA Unstuffing Area (sq ft/min)
AAA(69,3)	Number of graders used to grade LSA Unstuffing Area
AAA(70,1)	Area graded for LSA Truck Loading Area (sq ft)
AAA(70,2)	Rate at which one grader grades LSA Truck Loading Area (sq ft/min)
AAA(70,3)	Number of graders used to grade LSA Pallet Staging Area
AAA(71,1)	Area graded for LSA Pallet Staging Area (sq ft)
AAA(71,2)	Rate at which one grader grades LSA Pallet Staging Area (sq ft/min)
AAA(71,3)	Number of graders used to grade LSA Pallet Staging Area
AAA(72,1)	Area graded for LSA Administrative Pallet Staging Area
AAA(72,2)	Rate at which one grader grades LSA Administrative Area (sq ft/min)
AAA(72,3)	Number of graders used to grade LSA Administrative Area
AAA(73,1)	Area surfaced for LSA Storage Area 1 (sq ft)
AAA(73,2)	Rate at which one surfacer surfaces LSA Storage Area 1 (sq ft/min)
AAA(73,3)	Number of surfacers used to surface LSA Storage Area 1
AAA(74,1)	Area to be surfaced for LSA Storage Area 2 (sq ft)
AAA(74,2)	Rate at which one surfacer surfaces LSA Storage Area 2 (sq ft/min)
AAA(74,3)	Number of surfacers used to surface LSA Storage Area 2
AAA(75,1)	Area surfaced for LSA Storage Area 3 (sq ft)

<u>Element</u>	<u>Definition</u>
AAA(75,2)	Rate at which one surfacer surfaces LSA Storage Area 3 (sq ft/min)
AAA(75,3)	Number of surfacers used to surface LSA Storage Area 3
AAA(76,1)	Area surfaced for LSA Unstuffing Area (sq ft)
AAA(76,2)	Rate at which one surfacer surfaces LSA Unstuffing Area (sq ft/min)
AAA(76,3)	Number of surfacers used to surface LSA Unstuffing Area
AAA(77,1)	Area cleared for ASP Road A1 (sq ft)
AAA(77,2)	Rate at which one bulldozers clears ASP Road A1 (sq ft/min)
AAA(77,3)	Number of bulldozers used to clear ASP Road A1
AAA(78,1)	Area cleared for ASP Road A2 (sq ft)
AAA(78,2)	Rate at which one bulldozer clears ASP Road A2 (sq ft/min)
AAA(78,3)	Number of bulldozers used to clear ASP Road A2
AAA(79,1)	Area cleared for ASP Road A3 (sq ft)
AAA(79,2)	Rate at which one bulldozer clears ASP Road A3 (sq ft/min)
AAA(79,3)	Number of bulldozers used to clear ASP Road A3
AAA(80,1)	Area cleared for ASP Road A4 (sq ft)
AAA(80,2)	Rate at which one bulldozer clears ASP Road A4 (sq ft/min)
AAA(80,3)	Number of bulldozers used to clear ASP Road A4
AAA(81,1)	Area cleared for ASP Revetment A1 (sq ft)
AAA(81,2)	Rate at which one bulldozer clears ASP Revetment A1 (sq ft/min)
AAA(81,3)	Number of bulldozers used to clear ASP Revetment A1
AAA(82,1)	Area cleared for ASP Revetment A2 (sq ft)
AAA(82,2)	Rate at which one bulldozer clears ASP Revetment A2 (sq ft/min)

<u>Element</u>	<u>Definition</u>
AAA(82,3)	Number of bulldozers used to clear ASP Revetment A2
AAA(83,1)	Area cleared for ASP Revetment A3 (sq ft)
AAA(83,2)	Rate at which one bulldozer clears ASP Revetment A3 (sq ft/min)
AAA(83,3)	Number of bulldozers used to clear ASP Revetment A3
AAA(84,1)	Area cleared for ASP Revetment A4 (sq ft)
AAA(84,2)	Rate at which one bulldozer clears ASP Revetment A4 (sq ft/min)
AAA(84,3)	Number of bulldozers used to clear ASP Revetment A4
AAA(85,1)	Area cleared for ASP Perimeter (sq ft)
AAA(85,2)	Rate at which one bulldozer clears ASP Perimeter (sq ft/min)
AAA(85,3)	Number of bulldozers used to clear ASP Perimeter
AAA(86,1)	Area involved in depositing material for berms on ASP Revetment A1 (sq ft)
AAA(86,2)	Rate at which one scraper deposits material for berms on ASP Revetment A1 (sq ft/min)
AAA(86,3)	Number of scrapers used to deposit material for berms on ASP Revetment A1
AAA(87,1)	Area involved in depositing material for berms on ASP Revetment A2 (sq ft)
AAA(87,2)	Rate at which one scraper deposits material for berms on ASP Revetment A2 (sq ft/min)
AAA(87,3)	Number of scrapers used to deposit material for berms on ASP Revetment A2
AAA(88,1)	Area involved in depositing material for berms on ASP Revetment A3 (sq ft)
AAA(88,2)	Rate at which one scraper deposits material for berms on ASP Revetment A3 (sq ft)/min)
AAA(88,3)	Number of scrapers used to deposit material for ASP Revetment A3

<u>Element</u>	<u>Definition</u>
AAA(89,1)	Area involved in depositing material for berms on ASP Revetment A4 (sq ft)
AAA(89,2)	Rate at which one scraper deposits material for berms on ASP Revetment A4 (sq ft/min)
AAA(89,3)	Number of scrapers used to deposit material for berms on ASP Revetment A4
AAA(90,1)	Area involved in piling earth at berms for ASP Revetment A1 (sq ft)
AAA(90,2)	Rate at which one scoop loader piles earth at berms for ASP Revetment A1 (sq ft/min)
AAA(90,3)	Number of scoop loaders used to pile earth at berms for ASP Revetment A1
AAA(91,1)	Area involved in piling earth at berms for ASP Revetment A2 (sq ft)
AAA(91,2)	Rate at which one scoop loader piles earth at berms for ASP Revetment A2 (sq ft/min)
AAA(91,3)	Number of scoop loaders used to pile earth at berms for ASP Revetment A2
AAA(92,1)	Area involved in piling earth at berms for ASP Revetment A3 (sq ft)
AAA(92,2)	Rate at which one scoop loader piles earth at berms for ASP Revetment A3 (sq ft/min)
AAA(92,3)	Number of scoop loaders used to pile earth at berms for ASP Revetment A3
AAA(93,1)	Area involved in piling earth at berms for ASP Revetment A4 (sq ft)
AAA(93,2)	Rate at which one scoop loader piles earth at berms for ASP Revetment A4 (sq ft/min)
AAA(93,3)	Number of scoop loaders used to pile earth at berms for ASP Revetment A4
AAA(94,1)	Area involved in shaping berms for ASP Revetment A1 (sq ft)
AAA(94,2)	Rate at which one grader shapes berms for ASP Revetment A1 (sq ft/min)
AAA(94,3)	Number of graders used to shape berms for ASP Revetment A1

<u>Element</u>	<u>Definition</u>
AAA(95,1)	Area involved in shaping berms for ASP Revetment A2 (sq ft)
AAA(95,2)	Rate at which one grader shapes berms for ASP Revetment A2 (sq ft/min)
AAA(95,3)	Number of graders used to shape berms for ASP Revetment A2
AAA(96,1)	Area involved in shaping berms for ASP Revetment A3 (sq ft)
AAA(96,2)	Rate at which one grader shapes berms for ASP Revetment A3 (sq ft/min)
AAA(96,3)	Number of graders used to shape berms for ASP Revetment A3
AAA(97,1)	Area involved in shaping berms for ASP Revetment A4 (sq ft)
AAA(97,2)	Rate at which one grader shapes berms for ASP Revetment A4 (sq ft/min)
AAA(97,3)	Number of graders used to shape berms for ASP Revetment A4
AAA(98,1)	Area compacted for ASP Road A1 (sq ft)
AAA(98,2)	Rate at which one roller compacts ASP Road A1 (sq ft/min)
AAA(98,3)	Number of rollers used to compact ASP Road A1
AAA(99,1)	Area compacted for ASP Road A2 (sq ft)
AAA(99,2)	Rate at which one roller compacts ASP Road A2 (sq ft/min)
AAA(99,3)	Number of rollers used to compact ASP Road A2
AAA(100,1)	Area compacted for ASP Road A3 (sq ft)
AAA(100,2)	Rate at which one roller compacts ASP Road A3 (sq ft/min)
AAA(100,3)	Number of rollers used to compact ASP Road A3
AAA(101,1)	Area compacted for ASP Road A4 (sq ft)
AAA(101,2)	Rate at which one roller compacts ASP Road A4 (sq ft/min)
AAA(101,3)	Number of rollers used to compact ASP Road A4
AAA(101,1)	Area graded for ASP Road A1 (sq ft)

<u>Element</u>	<u>Definition</u>
AAA(102,2)	Rate at which one grader grades ASP Road A1 (sq ft/min)
AAA(102,3)	Number of graders used to grade ASP Road A1
AAA(103,1)	Area graded for ASP Road A2 (sq ft)
AAA(103,2)	Rate at which one grader grades ASP Road A2 (sq ft/min)
AAA(103,3)	Number of graders used to grade ASP Road A2
AAA(104,1)	Area graded for ASP Road A3 (sq ft)
AAA(104,2)	Rate at which one grader grades ASP Road A3 (sq ft/min)
AAA(104,3)	Number of graders used to grade ASP Road A3
AAA(105,1)	Area graded for ASP Road A4 (sq ft)
AAA(105,2)	Rate at which one grader grades ASP Road A4 (sq ft/min)
AAA(105,3)	Number of graders used to grade ASP Road A4
AAA(106,1)	Area stripped for ASP Road A1 (sq ft)
AAA(106,2)	Rate at which one scraper strips ASP Road A1 (sq ft/min)
AAA(106,3)	Number of scrapers used to strip ASP Road A1
AAA(107,1)	Area stripped for ASP Road A2 (sq ft)
AAA(107,2)	Rate at which one scraper strips ASP Road A2 (sq ft/min)
AAA(107,3)	Number of scrapers used to strip ASP Road A2
AAA(108,1)	Area stripped for ASP Road A3 (sq ft)
AAA(108,2)	Rate at which one scraper strips ASP Road A3 (sq ft/min)
AAA(108,3)	Number of scrapers used to strip ASP Road A3
AAA(109,1)	Area stripped for ASP Road A4 (sq ft)
AAA(109,2)	Rate at which one scraper strips ASP Road A4 (sq ft/min)
AAA(109,3)	Number of scrapers used to strip ASP Road A4

<u>Element</u>	<u>Definition</u>
AAA(110,1)	Area cleared for AAFS1 (sq ft)
AAA(110,2)	Rate at which one bulldozer clears AAFS1 (sq ft/min)
AAA(110,3)	Number of bulldozers used to clear AAFS1
AAA(111,1)	Area cleared for AAFS2 (sq ft)
AAA(111,2)	Rate at which one bulldozer clears AAFS2 (sq ft/min)
AAA(111,3)	Number of bulldozers used to clears AAFS2
AAA(112,1)	Area cleared for AAFS3 (sq ft)
AAA(112,2)	Rate at which one bulldozer clears AAFS3 (sq ft/min)
AAA(112,3)	Number of bulldozers used to clear AAFS3
AAA(113,1)	Area cleared for AAFS4 (sq ft)
AAA(113,2)	Rate at which one bulldozer clears AAFS4 (sq ft/min)
AAA(113,3)	Number of bulldozers used to clear AAFS4
AAA(114,1)	Area graded for AAFS1 (sq ft)
AAA(114,2)	Rate at which one grader grades AAFS1 (sq ft/min)
AAA(114,3)	Number of graders used to grade AAFS1
AAA(115,1)	Area graded for AAFS2 (sq ft)
AAA(115,2)	Rate at which one grader grades AAFS2 (sq ft/min)
AAA(115,3)	Number of graders used to grade AAFS2
AAA (116,1)	Area graded for AAFS3 (sq ft)
AAA (116,2)	Rate at which one grader grades AAFS3 (sq ft/min)
AAA (116,3)	Number of graders used to grade AAFS3
AAA (117,1)	Area graded for AAFS4 (sq ft)
AAA (117, 2)	Rate at which one grader grades AAFS3 (sq ft/min)
AAA (117,3)	Number of graders used to grade AAFS4

<u>Element</u>	<u>Definition</u>
AAA(118,1)	Area involved in depositing material for AAFS Berm 1 (sq ft)
AAA(118,2)	Rate at which one scraper deposits material for AAFS Berm 1 (sq ft/min)
AAA(118,3)	Number of scrapers used to deposit material for AAFS Berm 1
AAA(119,1)	Area involved in depositing material for AAFS Berm 2 (sq ft)
AAA(119,2)	Rate at which one scraper deposits material for AAFS Berm 2 (sq ft/min)
AAA(119,3)	Number of scrapers used to deposit material for AAFS Berm 2
AAA(120,1)	Area involved in depositing material for AAFS Berm 3 (sq ft)
AAA(120,2)	Rate at which one scraper deposits material for AAFS Berm 3 (sq ft/min)
AAA(120,3)	Number of scrapers used to deposit material for AAFS Berm 3
AAA(121,1)	Area involved in depositing material for AAFS Berm 4 (sq ft)
AAA(121,2)	Rate at which one scraper deposits material for AAFS Berm 4 (sq ft/min)
AAA(121,3)	Number of scrapers used to deposit material for AAFS Berm 4
AAA(122,1)	Area involved in piling earth at AAFS Berm 1 (sq ft)
AAA(122,2)	Rate at which one scoop loader piles earth at AAFS Berm 1 (sq ft/min)
AAA(122,3)	Number of scoop loaders used to pile earth at AAFS Berm 1
AAA(123,1)	Area involved in piling earth at AAFS Berm 2 (sq ft)
AAA(123,2)	Rate at which one scoop loader piles earth at AAFS Berm 2 (sq ft/min)
AAA(123,3)	Number of scoop loaders used to pile earth at AAFS Berm 2
AAA(124,1)	Area involved in piling earth at AAFS Berm 3 (sq ft)
AAA(124,2)	Rate at which one scoop loader piles earth at AAFS Berm 3 (sq ft/min)

<u>Element</u>	<u>Definition</u>
AAA(124,3)	Number of scoop loaders used to pile earth at AAFS Berm 3
AAA(125,1)	Area involved in piling earth at AAFS Berm 4 (sq ft)
AAA(125,2)	Rate at which one scoop loader piles earth at AAFS Berm 4 (sq ft/min)
AAA(125,3)	Number of scoop loaders used to pile earth at AAFS Berm 4
AAA(126,1)	Area involved in shaping AAFS Berm 1 (sq ft)
AAA(126,2)	Rate at which one grader shapes AAFS Berm 1 (sq ft/min)
AAA(126,3)	Number of graders used to shape AAFS Berm 1
AAA(127,1)	Area involved in shaping AAFS Berm 2 (sq ft)
AAA(127,2)	Rate at which one grader shapes AAFS Berm 2 (sq ft/min)
AAA(127,3)	Number of graders used to shape AAFS Berm 2
AAA(128,1)	Area involved in shaping AAFS Berm 3 (sq ft)
AAA(128,2)	Rate at which one grader shapes AAFS Berm 3 (sq ft/min)
AAA(128,3)	Number of graders used to shape AAFS Berm 3
AAA(129,1)	Area involved in shaping AAFS Berm 4 (sq ft)
AAA(129,2)	Rate at which one grader shapes AAFS Berm 4 (sq ft/min)
AAA(129,3)	Number of graders used to shape AAFS Berm 4

7.2 CARGO GENERATION DATA

Data must be supplied to the model to specify, for each type of cargo delivered ashore, the time at which delivery starts, the total number of lighters, the time interval between the arrivals of lighters at the shoreline, and the number of cargo units aboard each lighter. The data defined in this section supply such information.

<u>Variable</u>	<u>Definition</u>
AECI1 (I = 1-9)	Delivery interval (min) for cargo type I for the Assault Echelon Initial Supply
AECI2 (I = 1-9)	Time delivery starts (min) for cargo type I for the Assault Echelon Initial Supply
AECI3 (I = 1-9)	Total number of lighter deliveries for cargo type I for the Assault Echelon Initial Supply
AECI4 (I = 1-9)	Number of units per lighter for cargo type I for the Assault Echelon Initial Supply
AFEI1 (I = 1-9)	Delivery interval (min) for cargo type I for the Assault Follow-On Echelon Initial Supply
AFCI2 (I = 1-9)	Time delivery starts (min) for cargo Type I for the Assault Follow-On Echelon Initial Supply
AFEI3 (I = 1-9)	Total number of lighter deliveries for cargo type I for the Assault Follow-on Echelon Initial Supply
AFEI4 (I = 1-9)	Number of units per lighter for cargo type I for the Assault Follow-On Echelon Initial Supply
FRMI1 (I = 1-9)	Delivery interval (min) for cargo type I for the Force Resupply For Mission Duration
FRMA1	Delivery interval (min) for cargo type 10 for the Force Resupply For Mission Duration
FRMB1	Delivery interval (min) for cargo type 11 for the Force Resupply For Mission Duration
FRMD1	Delivery interval (min) for cargo type 13 for the Force Resupply For Mission Duration
FRMI2 (I = 1-9)	Time delivery starts (min) for cargo type I for the Force Resupply For Mission Duration
FRMA2	Time delivery starts (min) for cargo type 10 for Force Resupply For Mission Duration

<u>Element</u>	<u>Description</u>
FRMB2	Time delivery starts (min) for cargo type 11 for Force Resupply For Mission Duration
FRMD2	Time delivery starts (min) for cargo type 13 for Force Resupply For Mission Duration
FRMI3 (I = 1-9)	Total number of lighter deliveries for cargo type I for Force Resupply For Mission Duration
FRMA3	Total number of lighter deliveries for cargo type 10 for Force Resupply For Mission Duration
FRMB3	Total number of lighter deliveries for cargo type 11 for Force Resupply For Mission Duration
FRMD3	Total number of lighter deliveries for Cargo type 11 for Force Resupply For Mission Duration
FRMI4 (I = 1-9)	Number of cargo units per lighter for Force Resupply For Mission Duration
FRMA4	Number of cargo units per lighter for cargo type 10 for Force Resupply For Mission Duration
FRMB4	Number of cargo units per lighter for cargo type 11 for Force Resupply For Mission Duration
FRMD4	Number of cargo units per lighter for cargo type 13 for Force Resupply For Mission Duration

7.3 INPUT MATRIX CCC

Matrix CCC contains input data relating primarily to the cargo handling and transportation operations which occur in the ALSA simulation. There is also a limited amount of data in matrix CCC which relates to the construction phase of the operation. All references in matrix CCC to cargo handling equipment are made by the use of numbers which refer to specific types of equipment (See Table 3). All references in matrix CCC to specific types of cargo are made by numbers (See Table 2). The elements of matrix CCC and their corresponding descriptions are defined as follows:

TABLE 3 - TYPES OF CARGO HANDLING EQUIPMENT

TYPE NO.	DESCRIPTION
8	Cranes at AAFS
10	Towing equipment
11	Beach forklift for general cargo
12	Beach forklift for POL
13	Beach forklift for ammo
14	BSA forklift for general cargo
15	BSA forklift for POL
16	BSA forklift for ammo
17	Flatbed trucks
18	LSA forklift for general cargo
19	LSA forklift for POL
20	ASP 1 forklift for ammo
21	Beach container lift
22	BSA container lift
23	BSA unstuffing equipment
24	LSA container lift
25	LSA unstuffing equipment
26	ASP container lift
27	ASP unstuffing equipment
28	Cranes at beach
29	Cranes at BSA
30	Cranes at LSA
31	ASP 2 forklift for ammo
32	ASP 3 forklift for ammo
33	ASP 4 forklift for ammo
34	Flatbed trucks for break bulk cargo
35	Flatbed trucks for containerized cargo

<u>Element</u>	<u>Description</u>
CCC(7,I) (I = 1-3)	Type number of beach forklift used to unload lighter of cargo type I and load cargo type I onto truck
CCC(7,I) (I = 4-9)	Type number of container lift used to unload lighter of cargo type I and load cargo type I onto truck
CCC(8,I) (I = 1-3)	Number of beach forklifts of type number CCC(7,I) used to unload lighter of cargo type I and load cargo type I onto truck
CCC(8,I) (I = 4-9)	Number of container lifts of type number CCC(7,I) used to unload lighter of cargo type I and load cargo type I onto truck
CCC(9,I) (I = 1-3)	Number of units/hour of cargo type I that forklift type number CCC(7,I) can transfer from lighter to truck
CCC(9,I) (I = 4-9)	Number of containers/hour of cargo type I that container lift type number CCC(7,I) can transfer from lighter to truck
CCC(10,I) (I = 1-3)	Number of units of cargo type I that one truck can carry
CCC(10,I) (I = 4-9)	Number of containers of cargo type I that that one truck can carry
CCC(11,I) (I = 1-9)	Speed (ft/min) of truck carrying cargo type I from beach to BSA
CCC(12,I) (I = 1-3)	Type number of forklift used at BSA to unload cargo type I from truck
CCC(12,I) (I = 4-9)	Type number of BSA container lift used to unload cargo type I from truck
CCC(13,I) (I = 1-3)	Number of BSA forklifts of type number CCC(12,I) used to unload cargo type I from one truck
CCC(13,I) (I = 4-9)	Number of container lifts of type number CCC(12,I) used to unload one truck with cargo type I at BSA
CCC(13,10)	Unloading rate from lighter (units/hour) for cargo type 10
CCC(13,12)	Distance (ft) from LSA to BSA
CCC(13,13)	Distance (ft) from ASP to BSA
CCC(14,I) (I = 1-3)	Number of units/hour of cargo type I that BSA forklift type number CCC(12,1) can unload from truck

<u>Element</u>	<u>Description</u>
CCC(14,I) I = 4-9	Number of containers/hour that BSA container lift type number CCC(12,I) can unload from truck
CCC(14,11)	Distance (ft) from beach to LSA
CCC(14,12)	Distance (ft) from beach to BSA
CCC(14,13)	Distance (ft) from beach to ASP
CCC(15,I) (I = 1-9)	Speed (ft/min) of truck returning to beach from BSA after delivering cargo type I
CCC(15,10)	Speed (ft/min) of cargo type 10
CCC(16,I) (I = 1-3)	Number of units/hour of cargo type I moved to storage by BSA forklift type number CCC(12,I)
CCC(16,I) (I = 4-6)	Type number of BSA unstuffing equipment used to unstuff cargo type I
CCC(16,11)	Type number of towing equipment used to tow type 11 cargo
CCC(17,I) (I = 1,2)	Speed (ft/min) of truck carrying cargo type I from beach to LSA
CCC(17,I) (I = 4-6)	Number of units of BSA unstuffing equipment type number CCC(16,I) used to unstuff one container of cargo type I
CCC(17,11)	Unloading rate (units/hour) for towing equipment type number CCC(16,11) when unloading type 11 cargo from lighter
CCC(18,I) (I = 1,2)	Type number of forklift used at LSA to unload cargo type I from truck
CCC(18,I) I = 4-6	Number of containers/hour of cargo type I that BSA unstuffing equipment type number CCC(16,I) can unstuff
CCC(18,11)	Speed (ft/min) of towing equipment type number CCC(16,11) when towing cargo type 11
CCC(19,I) (I = 1,2)	Number of LSA forklifts of type number CCC(18,I) used to unload cargo type I from one truck
CCC(19,I) (I = 4-6)	Type number of BSA forklift used to move and store unstuffed cargo type I
CCC(19,11)	Speed (ft/min) of towing equipment type number CCC(16,11) when moving without cargo in tow

<u>Element</u>	<u>Description</u>
CCC(20,I) (I = 1,2)	Number of units/hour of cargo type I that LSA forklift type number CCC(18,I) can unload from truck
CCC(20,I) (I = 4-6)	Number of BSA forklifts of type number CCC(19,I) used to move and store unstuffed cargo type I
CCC(20,7)	Delay time (in minutes) before starting permanent MSR construction
CCC(20,8)	Delay time (min) before starting LSA construction
CCC(20,9)	Delay time (min) before starting ASP construction
CCC(20,10)	Delay time (min) before starting AAFS construction
CCC(20,13)	Type number of crane used to unload cargo type 13 from lighter
CCC(21,I) (I = 1,2)	Speed (ft/min) of truck returning to beach from LSA after delivering cargo type I
CCC(21,I) (I = 4-6)	Number of units/hour of unstuffed cargo type I that BSA forklift type number CCC(19,I) can move to storage
CCC(21,13)	Number of cranes of type number CCC(20,13) used to unload type 13 cargo from lighter
CCC(22,I) (I = 1,2)	Number of units/hour of cargo type I moved to storage by LSA forklift type number CCC(18,I)
CCC(22,I) (I = 4-6)	Type number of BSA container lift used to move empty containers of cargo type I from BSA to shore
CCC(22,13)	Number of units/hour of cargo type 13 that crane type number CCC(20,13) can unload from lighter
CCC(23,I) (I = 4-6)	Number of BSA container lifts of type number CCC(22,I) used to move one truckload of empty containers of cargo type I from BSA to shore
CCC(23,13)	Number of units of type 13 cargo that a flatbed truck can carry
CCC(24,I) (I = 4-6)	Number of empty containers/hour of cargo type I that BSA container lift type number CCC(22,I) can move from BSA to shore

<u>Element</u>	<u>Description</u>
CCC(24,13)	Speed (ft/min) of truck when loaded with type 13 cargo
CCC(25,I) (I = 4-9)	Type number of LSA/ASP container lift used to unload cargo type I from truck
CCC(25,13)	Type number of LSA crane used to unload type 13 cargo from truck
CCC(26,I) (I = 4-9)	Number of LSA/ASP container lifts of type number CCC(25,I) used to unload one truckload of cargo type I
CCC(26,13)	Number of LSA cranes of type number CCC(25,13) used to unload type 13 cargo from one truck
CCC(27,I) (I = 4-9)	Number of containers/hour of cargo type I that LSA/ASP container lift type number CCC(25,I) can unload from truck
CCC(27,13)	Number of units/hour of type 13 cargo that LSA crane type number CCC(25,13) can unload from truck
CCC(28,I) (I = 7-9)	Time (min) required for LSA/ASP container lift type number CCC(25,I) to store one container of cargo type I
CCC(28,13)	Speed of unloaded truck (ft/min) returning to beach from BSA or LSA after unloading type 13 cargo
CCC(29,I) (I = 7-9)	Speed (ft/min) of a truck returning to beach from LSA/ASP after delivering cargo type I
CCC(29,13)	Type number of BSA crane used to unload cargo type 13 from truck
CCC(30,I) (I = 4-6)	Type number of LSA/ASP unstuffing equipment used to unstuff cargo type I
CCC(30,13)	Number of BSA cranes of type number CCC(29,13) used to unload type 13 cargo from one truck
CCC(31,I) (I = 4-6)	Number of pieces of LSA/ASP unstuffing equipment of type number CCC(30,I) used to unstuff one truckload of cargo type I
CCC(31,13)	Number of units/hour of type 13 cargo that BSA crane type number CCC(29,13) can unload from truck
CCC(32,I) (I = 4-6)	Number of containers/hour of cargo type I that LSA/ASP unstuffing equipment type number CCC(30,I) can unstuff

<u>Element</u>	<u>Description</u>
CCC(32,11)	Delay time (min) for construction equipment in BSA
CCC(32,12)	Delay time (min) for construction equipment in areas other than BSA
CCC(33,I) (I = 4-6)	Type number of LSA/ASP forklift used to move unstuffed cargo type I to dump and store
CCC(34,I) (I = 4-6)	Number of LSA/ASP forklifts of type number CCC(33,I) used to move the contents of one truckload of cargo type I to dump and store
CCC(35,I) (I = 4-6)	Number of units/hour of unstuffed cargo type I that LSA/ASP forklift type number CCC(33,I) can move to dump and store
CCC(36,I) (I = 4-6)	Type number of LSA/ASP container lift used to load empty container type I on truck
CCC(37,I) (I = 4-6)	Number of LSA/ASP container lifts of type number CCC(36,I) used to load empty containers type I on one truck
CCC(38,I) (I = 4-6)	Number of empty containers/hour of cargo type I that LSA/ASP container lift type number CCC(36,I) can load onto truck
CCC(39,I) (I = 4-6)	Speed (ft/min) of a truck carrying empty containers type I from LSA/ASP to BSA
CCC(40,I) (I = 4-6)	Type number of BSA container lift used to unload empty container type I from truck
CCC(41,I) (I = 4-6)	Number of BSA container lifts of type number CCC(40,I) used to unload empty container type I from one truck
CCC(42,I) (I = 4-6)	Number of empty containers/hour of cargo type I that BSA container lift type number CCC(40,I) can unload from truck
CCC(43,I) (I = 1-4)	Speed of truck (ft/min) carrying cargo type 3 between shore and ASP I
CCC(44,I) (I = 1-4)	Type number of ASP forklift used to unload cargo type 3 at ASP I
CCC(45,I) (I = 1-4)	Number of ASP forklifts of type number CCC(44,I) used to unload cargo type 3 from one truck

<u>Element</u>	<u>Description</u>
CCC(46,I) (I= 1-4)	Number of pallets/hour of cargo type 3 that ASP forklift type number CCC(44,I) can unload from truck
CCC(47,I) (I = 1-4)	Speed of truck (ft/min) of unloaded truck returning to beach from ASP I
CCC (48,I) (I = 1-4)	Number of pallets/hour of cargo type 3 that ASP forklift type number CCC(44,I) can move to storage
CCC(49,I) (I = 4,6,7,9)	Speed (ft/min) of a truck carrying cargo type I from beach to LSA
CCC(49,I) (I = 5,8)	Speed (ft/min) of a truck carrying cargo type I from beach to ASP

7.4 INPUT MATRIX FFF

The elements of matrix FFF are defined as follows.

<u>Element</u>	<u>Description</u>
FFF(3,I) (I = 1-4)	Distance (in feet) from shore to ASP I

7.5 CASE NUMBER AND SIMULATION LENGTH

The case number may be changed from run to run. It serves as a means of identification for a given run and is included in the program for user convenience.

<u>Variable</u>	<u>Description</u>
CSENO	Case number for the run

The length of time to be simulated by any one running of the model is a user determined input.

<u>Variable</u>	<u>Description</u>
TIMER	Length of time (min) to be simulated

7.6 OPERATING EQUIPMENT

Thirty-five different types of equipment may be used in the ALSA simulation model. They fall into two distinct classes, construction equipment and cargo handling equipment, as listed in Tables 4 and 5 respectively. The quantity of each type of equipment is specified as input by the user of the simulation. In order to specify these data, it is necessary for the user to know the variable names (names used in the coding of the ALSA simulation model) of the various pieces of equipment; therefore the appropriate variable names are also listed in Tables 4 and 5.

TABLE 4 - CONSTRUCTION EQUIPMENT NOMENCLATURE

Description	Variable Name
Scrapers	SCPR
Scoop loaders	SLDR
Dump trucks	DTRK
Rollers	RLLR
Graders	GRDR
Surfacers	SFCR
Backhoes	BKHO
Bulldozers	BULL

TABLE 5 - CARGO HANDLING EQUIPMENT NOMENCLATURE

Equipment Description	Variable Name
Cranes at AAFS	CRNE
Towing equipment	TWGE
Beach forklift for general cargo	FKLA
Beach forklift for POL	FKLB
Beach forklift for ammo	FKLC
BSA forklift for general cargo	FKLD
BSA forklift for POL	FKLE
BSA forklift for ammo	FKLF
Flatbed trucks for outsized cargo	FBTRK
LSA forklift for general cargo	FKLG
LSA forklift for POL	FKLH
ASP 1 forklift for ammo	FKLJ
Beach container lift	CNLA
BSA container lift	CNLB
BSA unstuffing equipment	UNSA
LSA container lift	CNLC
LSA unstuffing equipment	UNSB
ASP container lift	CNLD
ASP unstuffing equipment	UNSC
Cranes at beach	CRNA
Cranes at BSA	CRNB
Cranes at LSA	CRNC
ASP 2 forklift for ammo	FKLK
ASP 3 forklift for ammo	FKLL
ASP 4 forklift for ammo	FKLM
Flatbed trucks for break bulk cargo	TRKB
Flatbed trucks for containerized cargo	TRKC

7.7 SPECIFICATION OF INPUT DATA

The input data required by the ALSA model may be varied by the user from run to run to represent different equipment characteristics.

Two methods are used to change the values of the input data. The first method applies to changes in the data specifying the quantity of each type of equipment used in the model (See Section 7.6 and Tables 4 and 5). The second method applies to all other user supplied data (See Sections 7.1 - 7.4).

7.7.1 Specification of Equipment Quantities

As stated in Section 7.6, thirty-five different types of equipment may be used in the ALSA simulation model, but not all thirty-five different types must be used in any one run. The number of types is determined by the user, who must also specify exactly how many of each type to be used are to be available.

The right hand column of each page of the program listing in Appendix A gives the card numbers, one unique number for each card of the program. The data specifying the equipment are found in cards 135-162 of the listing. The presence of each of these cards signifies that the type of equipment represented by the variable name starting in column 2 of the card (See Tables 4 and 5 for listing of variable names) is to be represented in the simulation run. The word STORAGE is punched in columns 8 to 14 inclusive. The number beginning in column 19 of the card specifies the number of units of this piece of equipment that will be available in this run of the simulation.

To modify the data specifying the quantity of each type of equipment for an upcoming run, the user must actually remove from the program deck any cards which represent previous, but no longer desired, data of this type. He must then insert in the deck new cards which specify the equipment types and quantities to be used for the next run.

7.7.2 Specification of Other Input Data

This section describes the means of specifying the input data defined in Sections 7.1 - 7.4. All cards specifying these data have the word INITIAL punched in columns 8-14. Specific data values are punched in columns 19-71; this permits from one to three data specifications per card, each specification separated from the previous specification by a slash (/).

The data specifications defining the elements of matrix AAA (Section 7.1) are found in cards 327-463 (see the program listing in Appendix A). To change the value of a given element of matrix AAA, it is necessary to replace the card defining that element with another card containing the new value. For example, to change the value of AAA (101,2) from 400 to 500, card number 418,

```
INITIAL    MX$AAA(101,1),517500/MX$AAA(101,2),400
```

would be replaced by the card

```
INITIAL    MX$AAA(101,1),517500/MX$AAA(101,2),500
```

in the program.

The data found in the elements of matrix CCC (Section 7.3) and matrix FFF (section 7.4) are changed in a similar manner. Data for matrix CCC are defined in cards 464-518 and cards 521-522 of the program listing. Data for matrix FFF are defined in cards 519-520.

The cards defining the cargo generation data (Section 7.2) are found in lines 254-283 of the program listing. These data are changed in a manner similar to that of changing the data in the matrices; the only difference is that the variables being defined have no subscripts.

The case number is defined in line 252 of the program listing and the length of time to be simulated by the run is defined in line 253. These values are changed similarly to the manner in which the cargo generation data are changed.

7.8 IMPLEMENTATION OF DATA CHANGES

The method for actually changing data within the program depends on the way in which the program is run. If it is run directly from a card deck, the user will physically remove some cards from the deck

and replace them with others. At DTNSRDC, where the model is currently operational, the program is recorded as an UPDATE file on a disc. The method of making changes to the data on an UPDATE file is discussed in Section 8.0.

8.0 RUNNING THE MODEL

The GPSS computer program, which constitutes the ALSA simulation model, is stored on disc as a permanent UPDATE file on the CDC 6700 computer at DTNSRDC.

UPDATE is a system utility for maintaining libraries of source programs and data. It is a maintenance program that creates, corrects, and manipulates program library files. By employing the UPDATE utility, a user can modify and run his program with a small number of control cards, thus eliminating the need to work with a large, cumbersome deck of cards.

8.1 THE BASIC DECK SETUP

At DTNSRDC, the ALSA model is run on the CDC 6700 computer in the batch mode.

In order to run the ALSA model, the following deck setup is submitted.

```
CAEFAUL,CM120000,P3.                187, P.FRIEDENBERG
CHARGE,CAEF,XXXXXXXXXX.
ATTACH(PAUL,PAUL96,ID=CAEF,MR=1)
UPDATE(P=PAUL,F)
ATTACH,GPSS,ID=CSYS.
GPSS(I=COMPILE,FX)
END-OF-RECORD CARD (7/8/9 PUNCH IN COLUMN 1)
*IDENT PB0828
END-OF-RECORD CARD (7/8/9 PUNCH IN COLUMN 1)
END-OF-FILE CARD (6/7/8/9 PUNCH IN COLUMN 1)
```

The above deck setup will run the model in its basic form, without any changes to the data. This is the program listing as shown in Appendix A. The first card in the deck setup is the Job Card, and the second card is the Charge Card. Some of the information on these cards will vary with the individual user; see the Users' Services Branch for further information.

8.2 DATA MODIFICATION

The ALSA simulation model is designed to allow the user to examine system performance within the context of varying delivery schedules, equipment quantities, and capabilities. In order to do this, modifications must be made to the basic program listed in Appendix A to reflect the desired changes to the data as described in Section 7.0. As previously stated, these data changes may be effected by actually removing the cards defining the old data from the deck and replacing them with the cards containing the new data definitions; this method is applicable only when the simulation is being run directly from the card deck. Running directly from the card deck, however, is not normally done when a large program is involved, due to the correspondingly large number of cards which would have to be handled.

In order to exercise the ALSA model at DTNSRDC, the user submits the small deck of control cards listed in Section 8.1, plus a number of additional cards which will effect the desired changes in the input data. The cards needed to change the data values from those imbedded in the Appendix A program listing are inserted directly after the card *IDENT PB0828

in the card listing in Section 8.1.

Each line of coding in the program listing (representing one card) is uniquely identified by the alphanumeric data directly to its right, in the second and third columns from the right. (Note that the card number is in the rightmost column.)

To change a line of coding, first delete the line of coding to be changed, and then replace it with the desired line of coding. The use of the UPDATE system utility for this purpose is best illustrated by an example.

EXAMPLE

Statement of Problem:

In the Appendix A listing of the ALSA simulation model, change the number of available bulldozers (card 141) from 50 to 20, the value of matrix element AAA(114,3) from 4 to 5 (card 445), the value of matrix element AAA(115,1) from 226,000 to 200,000 (card 446), the value of

matrix element AAA(115,2) from 300 to 400 (card 446), and the value of matrix element AAA(115,3) from 4 to 5 (card 447).

Solution:

The control cards effecting the desired data changes are inserted into the Section 8.1 control card listing after the

*IDENT PB0828

card. The deck setup to make the desired data changes will then be

CAEFAUL,CM120000,P3.

187, P.FRIEDENBERG

CHARGE,CAEF,XXXXXXXXXX.

ATTACH(PAUL,PAUL96,ID=CAEF,MR=1)

UPDATE(P=PAUL,F)

ATTACH,GPSS,ID=CSYS.

GPSS(I=COMPILE,FX)

END-OF-RECORD CARD (7/8/9 PUNCH IN COLUMN 1)

*IDENT PB0828

*DELETE PE0802.7

BULL STORAGE 20

*DELETE PE0812.119,PE0812.121

INITIAL MX\$AAA(114,3),5

INITIAL MX\$AAA(115,1),200000/MX\$AAA(115,2),400

INITIAL MX\$AAA(115,3),5

END-OF-RECORD CARD (7/8/9 PUNCH IN COLUMN 1)

END-OF-FILE CARD (6/7/8/9 PUNCH IN COLUMN 1)

The *DELETE card with the appropriate identifiers defines the card or cards to be deleted. It is immediately followed by the card or cards which are to replace the deletion.

Further detailed information concerning the UPDATE system utility may be obtained from the User Services Branch at DTNSRDC and from the DTDNSRDC Computer Center Reference Manual (obtainable from the User Services Branch).

9.0 ALSA SIMULATION MODEL OUTPUT

The output from running the Appendix A program listing is given in Appendix B.

This section provides an explanation of the output listing.

9.1. OUTPUT COVER SHEET

The cover sheet for the output (page 112) contains the name and address of the installation (DTNSRDC) at which the ALSA model was developed. It also contains several input data values relating to the run.

9.2. BSA CARGO DELIVERY

The tabular data on pages 113-114 give the cargo delivered to the BSA as a function of time. The cargo itself is broken down into four separate categories: pallets of general cargo, drums of POL, pallets of ammunition, and containerized cargo. The cumulative amount of cargo in each category, delivered to the BSA, is recorded every twenty-four hours of simulated time.

9.3 LSA CARGO DELIVERY

The tabular data on pages 115-116 give the cargo delivered to the LSA as a function of time. The cargo is broken down into two general categories, general cargo and square (outsized) cargo. The general cargo category is further broken down into pallets and containers. The square cargo category is broken down into powered, non-powered, and non-wheeled types. The cumulative amounts delivered to the LSA are then recorded every twenty-four hours of simulated time.

9.4 AAFS POL DELIVERY

The tabular data on pages 117-118 give the amount of POL delivered to the AAFS as a function of time. The POL is broken down into two types, POL in drums and containerized POL. The cumulative amount of each type delivered to the AAFS is recorded every twenty-four hours of simulated time.

9.5 ASP AMMO DELIVERY

The tabular data on pages 119-120 give the amount of ammunition delivered to the ASP as a function of time. Ammunition is delivered to the ASP packaged in pallets and containers. The cumulative amounts of ammunition in both palletized and containerized packaging which are delivered to the ASP are recorded every twenty-four hours of simulated time.

9.6 CONSTRUCTION OUTPUT DATA

The output data on page 121 relate to the construction which is simulated within the ALSA Model.

Six basic construction tasks are simulated:

- Construction of the Beach Support Area (BSA)
- Construction of the Temporary Main Supply Routes (Temporary MSR)
- Construction of the Permanent Main Supply Routes (Permanent MSR)
- Construction of the Logistics Support Area (LSA)
- Construction of the Ammunition Supply Points (ASP)
- Construction of the Amphibious Assault Fuel System (AAFS)

Each of these six construction tasks involves the development of a distinct area and may be called an area task. (Note that the construction of the Temporary Main Supply Routes and the Permanent Main Supply Routes involve the same physical area, but they are still listed as distinct area tasks.) Each area task is in turn composed of a number of subtasks, all of which must be completed before the area task may be considered finished. The area tasks and the subtasks of which they are composed are listed in Table 6.

The output on pages 125-126 gives the completion time and the construction time for each subtask listed in Table 6. The completion time is the number of days, measured from the beginning of the overall amphibious operation, at which the subtask is completed. The construction time is defined as the number of days from the start of the subtask to its completion.

TABLE 6 - AREA TASKS AND SUBTASKS FOR ALSA CONSTRUCTION

AREA TASK (Construction of)	AREA SUBTASKS (Construction of)
Beach Support Area (BSA)	BSA Roads BSA Dump 1 BSA Dump 2 BSA Dump 3 BSA Dump 4
Temporary Main Supply Routes (Temporary MSR)	MSR Temporary Route 1 MSR Temporary Route 2 MSR Temporary Route 3 MSR Temporary Route 4
Permanent Main Supply Routes (Permanent MSR)	MSR Permanent Route 1 MSR Permanent Route 2 MSR Permanent Route 3 MSR Permanent Route 4
Logistics Support Area (LSA)	LSA Storage Area 1 LSA Storage Area 2 LSA Storage Area 3 LSA Unstuffing Area LSA Truck Loading Area LSA Pallet Staging Area LSA Administrative Area
Ammunition Supply Points (ASP)	ASP Road A1 ASP Road A2 ASP Road A3 ASP Road A4 ASP Revetment A1 ASP Revetment A2 ASP Revetment A3 ASP Revetment A4 ASP Perimeter
Amphibious Assault Fuel System (AAFS)	AAFS 1 AAFS 2 AAFS 3 AAFS 4

The ALSA TOTAL construction time is computed as the sum of the construction times for all ALSA subtasks except those for the Temporary Main Supply Routes.

9.7 EQUIPMENT UTILIZATION DATA

The output data on page 122 give the user information regarding the utilization of equipment during the simulation.

For each type of equipment used during the simulation, the output gives the total number available, the number of times that one or another piece of this type of equipment is used, the average time (in minutes) that each piece of this type of equipment is in use, and the maximum number of pieces of this type of equipment in use at any one time.

9.8 QUEUING DATA

The output data on pages 123-124 give queuing statistics for the requests for each type of equipment utilized during the simulation.

For the requests for any given equipment used during the simulation the output gives the maximum number of requests in the queue, the total number of requests, the number of requests which have no waiting time in the queue, and the average waiting time (in minutes) in the queue for those requests with a non-zero waiting time.

9.9 PRINTOUT OF INPUT DATA

The information on pages 125-136 is a recapitulation of the input data provided by the user for this specific run of the simulation. It is provided primarily as a user convenience. The data on pages 125-136 have been previously defined in Section 7.0.

APPENDIX A
LISTING OF PROGRAM

W S R R C GPSS V/6000

CRM GPSS V/6000

VER. 1.2 PSR 412

04/25/79

14-38.30.

CLAMP NUMBER	*LOC	OPERATION	A,B,C,D,E,F,G,H,I,J	COMMENTS	PE0627	CARD NUMBER
		REALLOCATE	BL0,1230,LSV,160,VAR,60		NATURE	1
					NATURE	2
					NATURE	3
					NATURE	4
					NATURE	5
					NATURE	6
					NATURE	7
					NATURE	8
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					NATURE	51
					NATURE	52
					NATURE	53
					NATURE	54

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VER. 1.2 PSR 412

CRP GPSS V/6000

N S P D C GPSS V/6000

BLOCK NUMBER	*LOC	OPERATION	A,B,C,D,E,F,G,H,I,J	COMMENTS	CARD NUMBER
	UNSP	FOU	25,0	PE0612	53
	CMLD	ECU	25,0	PE0612	54
	UNSC	FOU	27,0	PE0612	55
	CRNA	ECU	28,0	PE0612	56
	CRNG	FOU	29,0	PE0612	57
	CRNC	FOU	30,0	PE0612	58
	FKLK	FOU	31,0	PE0612	59
	FKLL	FOU	32,0	PE0612	60
	FKLM	FOU	33,0	PE0612	61
	TRKE	FOU	34,0	PE0612	62
	TPKC	FOU	35,0	PE0612	63
	CTM1	ECU	1,XL	PE0612	64
	CTM2	ECU	2,XL	PE0612	65
	CTM3	ECU	3,XL	PE0620	66
	CTM4	ECU	4,XL	PE0620	67
	CTM5	ECU	5,XL	PE0620	68
	CTM6	ECU	6,XL	PE0620	69
	CTM7	ECU	7,XL	PE0620	70
	CTM8	ECU	8,XL	PE0620	71
	CTM9	ECU	9,XL	PE0620	72
	CTM10	ECU	10,XL	PE0620	73
	CTM11	ECU	11,XL	PE0620	74
	CTM12	ECU	12,XL	PE0620	75
	CTM13	ECU	13,XL	PE0620	76
	CTM14	ECU	14,XL	PE0620	77
	CTM15	ECU	15,XL	PE0620	78
	CTM16	ECU	16,XL	PE0620	79
	CTM17	ECU	17,XL	PE0620	80
	CTM18	ECU	18,XL	PE0620	81
	CTM19	ECU	19,XL	PE0620	82
	CTM20	ECU	20,XL	PE0620	83
	CTM21	ECU	21,XL	PE0620	84
	CTM22	ECU	22,XL	PE0620	85
	CTM23	ECU	23,XL	PE0620	86
	CTM24	ECU	24,XL	PE0620	87
	CTM25	ECU	25,XL	PE0620	88
	CTM26	ECU	26,XL	PE0620	89
	CTM27	ECU	27,XL	PE0620	90
	CTM28	ECU	28,XL	PE0620	91
	CTM29	ECU	29,XL	PE0620	92
	CTM30	ECU	30,XL	PE0620	93
	CTM31	ECU	31,XL	PE0620	94
	CTM32	ECU	32,XL	PE0620	95
	CTM33	ECU	33,XL	PE0620	96
	MOF1	FOU	34,XL	PE0620	97
	MOF2	FOU	35,XL	PE0622	98
	MOF3	FOU	36,XL	PE0622	99
	MOF4	ECU	37,XL	PE0622	100
	MOF5	ECU	38,XL	PE0622	101
	MOF6	ECU	39,XL	PE0622	102
	MOF7	ECU	40,XL	PE0622	103
	MOF8	ECU	41,XL	PE0622	104
	MOF9	ECU	42,XL	PE0622	105
	MOF10	ECU	43,XL	PE0622	106
	MOF11	ECU	44,XL	PE0622	107
				PE0622	108
				PE0622	109
				PE0622	110
				PE0622	111
				PE0622	112
				PE0622	113
				PE0622	114
				PE0622	115
				PE0622	116
				PE0622	117
				PE0622	118
				PE0622	119
				PE0622	120

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CRM GPSS V/6000

W S R D C GPSS V/6000

BLOCK NUMBER	*LOC	OPERATION	A,B,C,D,E,F,G,H,I,J	COMMENTS	CARD NUMBER
1	MOF12	FOU	45,XL	PE0822	13
2	MOE13	FOU	46,XL	PE0822	14
3	MOF14	FOU	47,XL	PE0822	15
4	MOE15	FOU	48,XL	PE0822	16
5	MOF16	FOU	49,XL	PE0822	17
6	MOF17	FOU	50,XL	PE0822	18
7	MOF18	FOU	51,XL	PE0822	19
8	MOE19	FOU	52,XL	PE0822	20
9	MOE20	FOU	53,XL	PE0822	21
10	MOE21	FOU	54,XL	PE0822	22
11	MOE22	FOU	55,XL	PE0822	23
12	MOE23	FOU	56,XL	PE0822	24
13	MOE24	FOU	57,XL	PE0822	25
14	MOE25	FOU	58,XL	PE0822	26
15	MOE26	FOU	59,XL	PE0822	27
16	MOF27	FOU	60,XL	PE0822	28
17	MOF28	FOU	61,XL	PE0822	29
18	MOE29	FOU	62,XL	PE0822	30
19	MOE30	FOU	63,XL	PE0822	31
20	MOE31	FOU	64,XL	PE0822	32
21	MOF32	FOU	65,XL	PE0822	33
22	MOF33	FOU	66,XL	PE0822	34
23			NATURE	NATURE	6
24			NATURE	NATURE	7
25			NATURE	NATURE	8
26			NATURE	NATURE	1
27			NATURE	NATURE	2
28			NATURE	NATURE	3
29			NATURE	NATURE	4
30			NATURE	NATURE	5
31			NATURE	NATURE	6
32			NATURE	NATURE	7
33			NATURE	NATURE	8
34			NATURE	NATURE	9
35			NATURE	NATURE	10
36			NATURE	NATURE	11
37			NATURE	NATURE	12
38			NATURE	NATURE	13
39			NATURE	NATURE	14
40			NATURE	NATURE	15
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42			NATURE	NATURE	17
43			NATURE	NATURE	18
44			NATURE	NATURE	19
45			NATURE	NATURE	20
46			NATURE	NATURE	21
47			NATURE	NATURE	22
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97			NATURE	NATURE	72
98			NATURE	NATURE	73
99			NATURE	NATURE	74
100			NATURE	NATURE	75

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CRM GPSS V/6000 VER. 1.2 PSR 412

M S R O C GPSS V/6000

LOCK NUMBER	*LOC	OPERATION	A,B,C,D,E,F,G,H,I,J	COMMENTS	CARD NUMBER
1	AAA	MATRIX	X,130,3		28
1	RRR	MATRIX	H,32,9		165
2	CCC	MATRIX	H,59,13		166
1	DDD	MATRIX	HL,10,9		167
3	FFF	MATRIX	X,3,13		168
2	GGG	MATRIX	H,50,5		169
4	HHH	MATRIX	H,50,6		170
5	KKK	MATRIX	H,50,3		171
6	LLL	MATRIX	HL,35,2		172
2	MMM	MATRIX	H,35,1		173
8	NNN	MATRIX			174
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CPM GPSS V/6000 VFR. 1-2 PSR 412

N S R D C GPSS V/6000

CARD
NUMBER

COMMENTS

OPERATION

ALOC

NAME

43	RAM	FVARIABLE	XL\$MOE1+XL\$MOE2+XL\$MOE3+XL\$MOE4+XL\$MOE5	PE0824	14	220
44	RAJ	FVARIABLE	XL\$MOE10+XL\$MOE31+XL\$MOE32+XL\$MOE33	PE0824	15	221
45	RAK	FVARIABLE	V\$RAK1+V\$BAK2	PE0824	16	222
46	RAK1	FVARIABLE	XL\$MOE14+XL\$MOE15+XL\$MOE16+XL\$MOE17	PE0824	17	223
47	RAK2	FVARIABLE	XL\$MOE18+XL\$MOE19+XL\$MOE20	PE0824	18	224
48	RAL	FVARIABLE	V\$RAL1+V\$BAL2	PE0824	19	225
49	RAL1	FVARIABLE	XL\$MOE21+XL\$MOE22+XL\$MOE23+XL\$MOE24	PE0824	20	226
50	RAL2	FVARIABLE	XL\$MOE25+XL\$MOE26+XL\$MOE27+XL\$MOE28+XL\$MOE29	PE0824	21	227
51	RAN	FVARIABLE	XL\$MOE10+XL\$MOE11+XL\$MOE12+XL\$MOE13	PE0824	22	228
52	RAN1	FVARIABLE	49663/V\$BAK1	PE0824	23	229
53	RAC	FVARIABLE	V\$BAC1+V\$BAC2+V\$BAK1+V\$BAK2+V\$BAL1+V\$BAL2+V\$BAK1	PE0824	24	230
54	RAP	FVARIABLE	XL\$CTM6+XL\$CTM30	PE0826	25	231
55	RAP1	FVARIABLE	XL\$CTM7+XL\$CTM31	PE0826	1	232
56	RAP2	FVARIABLE	XL\$CTM8+XL\$CTM32	PE0826	2	233
57	RAS	FVARIABLE	XL\$CTM9+XL\$CTM33	PE0826	3	234
58	RAT	FVARIABLE	V\$RAF1+V\$RAF2	PE0827	4	235
59	RAU	FVARIABLE	V\$RAF1+V\$RAF2	PE0827	2	236
60	RAV	FVARIABLE	XL\$CTM34+XL\$CTM35+XL\$CTM36+XL\$CTM37+XL\$CTM38	PE0827	3	237
61				PE0827	4	238
62				PE1208	8	239
63				PE1208	9	240
64				PE1208	10	241
65				PE1208	11	242
66				PE1208	12	243
67				PE1212	10	244
68				PE1212	11	245
69				PE1212	12	246
70				PE0117	4	247
71				PE0117	5	248
72				PE0117	6	249
73				PE0418	3	250
74				PE0710	1	251
75				PE0712	2	252
76				PE0804	2	253
77				PE0804	3	254
78				PE0804	4	255
79				PE0805	1	256
80				PE0805	2	257
81				PE0805	3	258
82				PE0805	4	259
83				PE0805	5	260
84				PE0805	6	261
85				PE0806	1	262
86				PE0806	2	263
87				PE0806	3	264
88				PE0806	4	265
89				PE0806	5	266
90				PE0806	6	267
91				PE0806	7	268
92				PE0806	8	269
93				PE0806	9	270
94				PE0806	10	271
95				PE0806	11	272
96				PE0806	12	273
97				PE0806	13	274

BLOCK NUMBER	*LOC	OPERATION	A, P, C, D, E, F, G, H, I, J	COMMENTS	CARD NUMBER
INITIAL		INITIAL	MY\$AAA(5,1),154000/MY\$AAA(5,2),330/MY\$AAA(5,3),3	PE0812	4
INITIAL		INITIAL	MY\$AAA(6,1),34000/MY\$AAA(6,2),300/MY\$AAA(6,3),1	PE0815	330
INITIAL		INITIAL	MY\$AAA(7,1),137000/MY\$AAA(7,2),260/MY\$AAA(7,3),2	PE0815	331
INITIAL		INITIAL	MY\$AAA(8,1),137000/MY\$AAA(8,2),300/MY\$AAA(8,3),2	PE0812	332
INITIAL		INITIAL	MY\$AAA(9,1),100000/MY\$AAA(9,2),350/MY\$AAA(9,3),2	PE0812	333
INITIAL		INITIAL	MY\$AAA(10,1),100000/MY\$AAA(10,2),230/MY\$AAA(10,3),2	PE0812	334
INITIAL		INITIAL	MY\$AAA(11,1),130000/MY\$AAA(11,2),400/MY\$AAA(11,3),2	PE0812	335
INITIAL		INITIAL	MY\$AAA(12,1),100000/MY\$AAA(12,2),300/MY\$AAA(12,3),2	PE0812	336
INITIAL		INITIAL	MY\$AAA(13,1),100000/MY\$AAA(13,2),200/MY\$AAA(13,3),2	PE0812	337
INITIAL		INITIAL	MY\$AAA(14,1),100000/MY\$AAA(14,2),400/MY\$AAA(14,3),2	PE0812	338
INITIAL		INITIAL	MY\$AAA(15,1),198000/MY\$AAA(15,2),300/MY\$AAA(15,3),8	PE0812	339
INITIAL		INITIAL	MY\$AAA(16,1),650000/MY\$AAA(16,2),300/MY\$AAA(16,3),4	PE0812	340
INITIAL		INITIAL	MY\$AAA(17,1),1210000/MY\$AAA(17,2),300/MY\$AAA(17,3),6	PE0812	341
INITIAL		INITIAL	MY\$AAA(18,1),1300000/MY\$AAA(18,2),300/MY\$AAA(18,3),4	PE0812	342
INITIAL		INITIAL	MY\$AAA(19,1),1980000/MY\$AAA(19,2),350/MY\$AAA(19,3),8	PE0812	343
INITIAL		INITIAL	MY\$AAA(20,1),650000/MY\$AAA(20,2),350/MY\$AAA(20,3),6	PE0812	344
INITIAL		INITIAL	MY\$AAA(21,1),1210000/MY\$AAA(21,2),400/MY\$AAA(21,3),6	PE0812	345
INITIAL		INITIAL	MY\$AAA(22,1),1980000/MY\$AAA(22,2),400/MY\$AAA(22,3),8	PE0812	346
INITIAL		INITIAL	MY\$AAA(23,1),650000/MY\$AAA(23,2),300/MY\$AAA(23,3),4	PE0812	347
INITIAL		INITIAL	MY\$AAA(24,1),1210000/MY\$AAA(24,2),350/MY\$AAA(24,3),6	PE0812	348
INITIAL		INITIAL	MY\$AAA(25,1),1980000/MY\$AAA(25,2),400/MY\$AAA(25,3),8	PE0812	349
INITIAL		INITIAL	MY\$AAA(26,1),650000/MY\$AAA(26,2),300/MY\$AAA(26,3),4	PE0812	350
INITIAL		INITIAL	MY\$AAA(27,1),1210000/MY\$AAA(27,2),350/MY\$AAA(27,3),6	PE0812	351
INITIAL		INITIAL	MY\$AAA(28,1),1980000/MY\$AAA(28,2),400/MY\$AAA(28,3),8	PE0812	352
INITIAL		INITIAL	MY\$AAA(29,1),650000/MY\$AAA(29,2),300/MY\$AAA(29,3),4	PE0812	353
INITIAL		INITIAL	MY\$AAA(30,1),1210000/MY\$AAA(30,2),350/MY\$AAA(30,3),6	PE0812	354
INITIAL		INITIAL	MY\$AAA(31,1),1980000/MY\$AAA(31,2),400/MY\$AAA(31,3),8	PE0812	355
INITIAL		INITIAL	MY\$AAA(32,1),650000/MY\$AAA(32,2),300/MY\$AAA(32,3),4	PE0812	356
INITIAL		INITIAL	MY\$AAA(33,1),1210000/MY\$AAA(33,2),350/MY\$AAA(33,3),6	PE0812	357
INITIAL		INITIAL	MY\$AAA(34,1),1980000/MY\$AAA(34,2),400/MY\$AAA(34,3),8	PE0812	358
INITIAL		INITIAL	MY\$AAA(35,1),650000/MY\$AAA(35,2),300/MY\$AAA(35,3),4	PE0812	359
INITIAL		INITIAL	MY\$AAA(36,1),1210000/MY\$AAA(36,2),350/MY\$AAA(36,3),6	PE0812	360
INITIAL		INITIAL	MY\$AAA(37,1),1980000/MY\$AAA(37,2),400/MY\$AAA(37,3),8	PE0812	361
INITIAL		INITIAL	MY\$AAA(38,1),650000/MY\$AAA(38,2),300/MY\$AAA(38,3),4	PE0812	362
INITIAL		INITIAL	MY\$AAA(39,1),1210000/MY\$AAA(39,2),350/MY\$AAA(39,3),6	PE0812	363
INITIAL		INITIAL	MY\$AAA(40,1),1980000/MY\$AAA(40,2),400/MY\$AAA(40,3),8	PE0812	364
INITIAL		INITIAL	MY\$AAA(41,1),650000/MY\$AAA(41,2),300/MY\$AAA(41,3),4	PE0812	365
INITIAL		INITIAL	MY\$AAA(42,1),1210000/MY\$AAA(42,2),350/MY\$AAA(42,3),6	PE0812	366
INITIAL		INITIAL	MY\$AAA(43,1),1980000/MY\$AAA(43,2),400/MY\$AAA(43,3),8	PE0812	367
INITIAL		INITIAL	MY\$AAA(44,1),650000/MY\$AAA(44,2),300/MY\$AAA(44,3),4	PE0812	368
INITIAL		INITIAL	MY\$AAA(45,1),1210000/MY\$AAA(45,2),350/MY\$AAA(45,3),6	PE0812	369
INITIAL		INITIAL	MY\$AAA(46,1),1980000/MY\$AAA(46,2),400/MY\$AAA(46,3),8	PE0812	370
INITIAL		INITIAL	MY\$AAA(47,1),650000/MY\$AAA(47,2),300/MY\$AAA(47,3),4	PE0812	371
INITIAL		INITIAL	MY\$AAA(48,1),1210000/MY\$AAA(48,2),350/MY\$AAA(48,3),6	PE0812	372
INITIAL		INITIAL	MY\$AAA(49,1),1980000/MY\$AAA(49,2),400/MY\$AAA(49,3),8	PE0812	373
INITIAL		INITIAL	MY\$AAA(50,1),650000/MY\$AAA(50,2),300/MY\$AAA(50,3),4	PE0812	374
INITIAL		INITIAL	MY\$AAA(51,1),1210000/MY\$AAA(51,2),350/MY\$AAA(51,3),6	PE0812	375
INITIAL		INITIAL	MY\$AAA(52,1),1980000/MY\$AAA(52,2),400/MY\$AAA(52,3),8	PE0812	376
INITIAL		INITIAL	MY\$AAA(53,1),650000/MY\$AAA(53,2),300/MY\$AAA(53,3),4	PE0812	377
INITIAL		INITIAL	MY\$AAA(54,1),1210000/MY\$AAA(54,2),350/MY\$AAA(54,3),6	PE0812	378
INITIAL		INITIAL	MY\$AAA(55,1),1980000/MY\$AAA(55,2),400/MY\$AAA(55,3),8	PE0812	379
INITIAL		INITIAL	MY\$AAA(56,1),650000/MY\$AAA(56,2),300/MY\$AAA(56,3),4	PE0812	380
INITIAL		INITIAL	MY\$AAA(57,1),1210000/MY\$AAA(57,2),350/MY\$AAA(57,3),6	PE0812	381
INITIAL		INITIAL	MY\$AAA(58,1),1980000/MY\$AAA(58,2),400/MY\$AAA(58,3),8	PE0812	382
INITIAL		INITIAL	MY\$AAA(59,1),650000/MY\$AAA(59,2),300/MY\$AAA(59,3),4	PE0812	383
INITIAL		INITIAL	MY\$AAA(60,1),1210000/MY\$AAA(60,2),350/MY\$AAA(60,3),6	PE0812	384
INITIAL		INITIAL	MY\$AAA(61,1),1980000/MY\$AAA(61,2),400/MY\$AAA(61,3),8	PE0812	385
INITIAL		INITIAL	MY\$AAA(62,1),650000/MY\$AAA(62,2),300/MY\$AAA(62,3),4	PE0812	386
INITIAL		INITIAL	MY\$AAA(63,1),1210000/MY\$AAA(63,2),350/MY\$AAA(63,3),6	PE0812	387
INITIAL		INITIAL	MY\$AAA(64,1),1980000/MY\$AAA(64,2),400/MY\$AAA(64,3),8	PE0812	388
INITIAL		INITIAL	MY\$AAA(65,1),650000/MY\$AAA(65,2),300/MY\$AAA(65,3),4	PE0812	389
INITIAL		INITIAL	MY\$AAA(66,1),1210000/MY\$AAA(66,2),350/MY\$AAA(66,3),6	PE0812	390
INITIAL		INITIAL	MY\$AAA(67,1),1980000/MY\$AAA(67,2),400/MY\$AAA(67,3),8	PE0812	391
INITIAL		INITIAL	MY\$AAA(68,1),650000/MY\$AAA(68,2),300/MY\$AAA(68,3),4	PE0812	392
INITIAL		INITIAL	MY\$AAA(69,1),1210000/MY\$AAA(69,2),350/MY\$AAA(69,3),6	PE0812	393
INITIAL		INITIAL	MY\$AAA(70,1),1980000/MY\$AAA(70,2),400/MY\$AAA(70,3),8	PE0812	394

W S R D C GPSS V/6000

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OPERATION	A,9,C,0,E,F,G,H,I,J	COMMENTS	CAKD NUMBER
INITIAL	MXSAAA(69,1),21904/MXSAAA(69,2),200/MXSAAA(69,3),1		59
INITIAL	MXSAAA(70,1),46000/MXSAAA(70,2),290/MXSAAA(70,3),1		60
INITIAL	MXSAAA(71,1),37300/MXSAAA(71,2),200/MXSAAA(71,3),1		61
INITIAL	MXSAAA(72,1),76800/MXSAAA(72,2),200/MXSAAA(72,3),1		62
INITIAL	MXSAAA(73,1),103700/MXSAAA(73,2),600/MXSAAA(73,3),4		63
INITIAL	MXSAAA(74,1),193700/MXSAAA(74,2),600/MXSAAA(74,3),4		64
INITIAL	MXSAAA(75,1),236600/MXSAAA(75,2),600/MXSAAA(75,3),5		65
INITIAL	MXSAAA(76,1),21904/MXSAAA(76,2),600/MXSAAA(76,3),1		66
INITIAL	MXSAAA(77,1),517500/MXSAAA(77,2),300/MXSAAA(77,3),6		67
INITIAL	MXSAAA(78,1),517500/MXSAAA(78,2),300/MXSAAA(78,3),6		68
INITIAL	MXSAAA(79,1),517500/MXSAAA(79,2),300/MXSAAA(79,3),6		69
INITIAL	MXSAAA(80,1),517500/MXSAAA(80,2),300/MXSAAA(80,3),6		70
INITIAL	MXSAAA(81,1),370100/MXSAAA(81,2),300/MXSAAA(81,3),4		71
INITIAL	MXSAAA(82,1),370000/MXSAAA(82,2),300/MXSAAA(82,3),4		72
INITIAL	MXSAAA(83,1),370000/MXSAAA(83,2),300/MXSAAA(83,3),4		73
INITIAL	MXSAAA(84,1),370000/MXSAAA(84,2),300/MXSAAA(84,3),4		74
INITIAL	MXSAAA(85,1),400000/MXSAAA(85,2),300/MXSAAA(85,3),4		75
INITIAL	MXSAAA(86,1),133000/MXSAAA(86,2),350/MXSAAA(86,3),2		76
INITIAL	MXSAAA(87,1),103000/MXSAAA(87,2),350/MXSAAA(87,3),2		77
INITIAL	MXSAAA(88,1),103000/MXSAAA(88,2),350/MXSAAA(88,3),2		78
INITIAL	MXSAAA(89,1),103000/MXSAAA(89,2),350/MXSAAA(89,3),2		79
INITIAL	MXSAAA(90,1),103000/MXSAAA(90,2),300/MXSAAA(90,3),2		80
INITIAL	MXSAAA(91,1),103000/MXSAAA(91,2),300/MXSAAA(91,3),2		81
INITIAL	MXSAAA(92,1),103000/MXSAAA(92,2),300/MXSAAA(92,3),2		82
INITIAL	MXSAAA(93,1),103000/MXSAAA(93,2),300/MXSAAA(93,3),2		83
INITIAL	MXSAAA(94,1),103000/MXSAAA(94,2),300/MXSAAA(94,3),2		84
INITIAL	MXSAAA(95,1),103000/MXSAAA(95,2),300/MXSAAA(95,3),2		85
INITIAL	MXSAAA(96,1),103000/MXSAAA(96,2),300/MXSAAA(96,3),2		86
INITIAL	MXSAAA(97,1),103000/MXSAAA(97,2),300/MXSAAA(97,3),2		87
INITIAL	MXSAAA(98,1),517500/MXSAAA(98,2),400/MXSAAA(98,3),6		88
INITIAL	MXSAAA(99,1),517500/MXSAAA(99,2),400/MXSAAA(99,3),6		89
INITIAL	MXSAAA(100,1),517500/MXSAAA(100,2),400		90
INITIAL	MXSAAA(101,1),517500/MXSAAA(101,2),400		91
INITIAL	MXSAAA(102,1),517500/MXSAAA(102,2),300		92
INITIAL	MXSAAA(103,1),517500/MXSAAA(103,2),300		93
INITIAL	MXSAAA(104,1),517500/MXSAAA(104,2),300		94
INITIAL	MXSAAA(105,1),517500/MXSAAA(105,2),300		95
INITIAL	MXSAAA(106,1),517500/MXSAAA(106,2),350		96
INITIAL	MXSAAA(107,1),517500/MXSAAA(107,2),350		97
INITIAL	MXSAAA(108,1),517500/MXSAAA(108,2),350		98
INITIAL	MXSAAA(109,1),517500/MXSAAA(109,2),350		99
INITIAL	MXSAAA(110,1),226000/MXSAAA(110,2),300		100
INITIAL	MXSAAA(111,1),226000/MXSAAA(111,2),300		101
INITIAL	MXSAAA(112,1),226000/MXSAAA(112,2),300		102
INITIAL	MXSAAA(113,1),226000/MXSAAA(113,2),300		103
INITIAL	MXSAAA(114,1),226000/MXSAAA(114,2),300		104
INITIAL	MXSAAA(115,1),226000/MXSAAA(115,2),300		105
INITIAL	MXSAAA(116,1),226000/MXSAAA(116,2),300		106
INITIAL	MXSAAA(117,1),226000/MXSAAA(117,2),300		107
INITIAL	MXSAAA(118,1),226000/MXSAAA(118,2),300		108
INITIAL	MXSAAA(119,1),226000/MXSAAA(119,2),300		109
INITIAL	MXSAAA(120,1),226000/MXSAAA(120,2),300		110
INITIAL	MXSAAA(121,1),226000/MXSAAA(121,2),300		111
INITIAL	MXSAAA(122,1),226000/MXSAAA(122,2),300		112
INITIAL	MXSAAA(123,1),226000/MXSAAA(123,2),300		113

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N S R P C GPSS V/6000

CARD
NUMBER

BN CK
NUMBER *LOC

OPERATION	A,B,C,D,E,F,G,H,I,J	COMMENTS	CARD NUMBER
INITIAL	MHSCCC(4,3,1-4),1320/MHSCCC(4,4,1),20/MHSCCC(4,4,2),31		8 495
INITIAL	MHSCCC(4,4,3),32/MHSCCC(4,4,4),33/MHSCCC(4,5,1-4),1		9 496
INITIAL	MHSCCC(4,6,1-4),30/MHSCCC(4,7,1-4),1320		10 497
INITIAL	MHSCCC(4,8,1-4),12		11 498
INITIAL	MHSCCC(4,9,4-9),1320		1 499
INITIAL	MHSCCC(6,10-13),4		10 500
INITIAL	MHSCCC(13,10),6/MHSCCC(14,11),10500/MHSCCC(14,12),500		2 501
INITIAL	MHSCCC(13,12),10000/MHSCCC(13,13),27254		2 502
INITIAL	MHSCCC(14,13),27754		3 503
INITIAL	MHSCCC(15,10),900/MHSCCC(16,11),10/MHSCCC(17,11),2		3 504
INITIAL	MHSCCC(18,11),480/MHSCCC(19,11),600		4 505
INITIAL	MHSCCC(20,12-13),28/MHSCCC(21,12-13),1		5 506
INITIAL	MHSCCC(22,12-13),2/MHSCCC(23,12-13),1		6 507
INITIAL	MHSCCC(24,12-13),480/MHSCCC(25,12-13),30		7 508
INITIAL	MHSCCC(26,12-13),1/MHSCCC(27,12-13),2		8 509
INITIAL	MHSCCC(28,12-13),2100/MHSCCC(29,12-13),29		9 510
INITIAL	MHSCCC(30,12-13),1/MHSCCC(31,12-13),2		10 511
INITIAL	MHSCCC(32,11),120/MHSCCC(32,12),360		1 512
INITIAL	MHSCCC(20,7),720		1 513
INITIAL	MHSCCC(1,1),30/MHSCCC(1,2-3),60/MHSCCC(1,4),30		2 514
INITIAL	MHSCCC(1,5-6),60/MHSCCC(1,7-9),60		3 515
INITIAL	MHSCCC(2,1),20/MHSCCC(2,2-3),10/MHSCCC(2,4),20		4 516
INITIAL	MHSCCC(2,5-6),10/MHSCCC(2,7-9),10		5 517
INITIAL	MHSCCC(1,10-13),60/MHSCCC(2,10-13),10		6 518
INITIAL	MHSCCC(13,11),20200/MHSCCC(3,2),26400		12 519
INITIAL	MHSCCC(13,3),35376/MHSCCC(3,4),29040		13 520
INITIAL	MHSCCC(13,1),60/MHSCCC(10,2-3),50		9 521
INITIAL	MHSCCC(10,4-9),10		10 522
INITIAL	MHSCNN(1,1),700/MHSCNN(12,1),411/MHSCNN(13,1),98		38 523
INITIAL	MHSCNN(4,1),154/MHSCNN(15,1),34/MHSCNN(6,1),9900		39 524
INITIAL	MHSCNN(17,1),3250/MHSCNN(18,1),6050/MHSCNN(9,1),5000		40 525
INITIAL	MHSCNN(10,1),1222/MHSCNN(11,1),1222/MHSCNN(12,1),1222		41 526
INITIAL	MHSCNN(13,1),1222/MHSCNN(14,1),1162/MHSCNN(15,1),1162		42 527
INITIAL	MHSCNN(16,1),1423/MHSCNN(17,1),131/MHSCNN(18,1),243		43 528
INITIAL	MHSCNN(19,1),75/MHSCNN(20,1),384/MHSCNN(21,1),2070		44 529
INITIAL	MHSCNN(22,1),2373/MHSCNN(23,1),2070/MHSCNN(24,1),2070		45 530
INITIAL	MHSCNN(25,1),1480/MHSCNN(26,1),1480/MHSCNN(27,1),1480		46 531
INITIAL	MHSCNN(28,1),1487/MHSCNN(29,1),400/MHSCNN(30,1),9900		47 532
INITIAL	MHSCNN(31,1),3250/MHSCNN(32,1),4050/MHSCNN(33,1),5000		48 533
INITIAL		NATURE	60 534
INITIAL		NATURE	69 535
INITIAL		NATURE	70 536
INITIAL		NATURE	11 537
INITIAL		NATURE	13 538
INITIAL		NATURE	14 539
INITIAL		NATURE	15 540
INITIAL		NATURE	17 541
INITIAL		NATURE	18 542
INITIAL		NATURE	87 543
INITIAL		NATURE	88 544
INITIAL		NATURE	89 545
INITIAL		NATURE	90 546
INITIAL		NATURE	91 547
INITIAL		NATURE	92 548
INITIAL		NATURE	93 549

MODEL SEGMENT 1 LANDING OPERATION

GENERATE ***1 LANDING OPERATION
 ADVANCE MHSCCC(25,1) SHORE PARTY ARRIVES WITH CONSTRUCTION EQUIPMENT
 ADVANCE MHSCCC(25,2) SHORE PARTY LAYS OUT BEACH
 LOGIC S 1 SET LOGIC SWITCH 1
 TERMINATE

MODEL SEGMENT 2 BSA DEVELOPMENT

1 = BSA ROADS
 2 = DUMP 1
 3 = DUMP 2
 4 = DUMP 3

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MSRDC GPSS V/6000

CARD
NUMBER

BLOCK NUMBER	*LOC	OPERATION	A,B,C,D,E,F,G,H,I,J	COMMENTS	CARD NUMBER
6	1	GENERATE	1,1,6	BSA DEVELOPMENT	94
7	1	GATE LS	1	TEST FOR ARRIVAL OF EQUIPMENT	95
8	4,BSAA,1	SPLIT	4,BSAA,1	FIVE TRANSACTIONS REQUIRED	14
9	BSAA	PRIORITY	VSPPRTY	ASSIGN PRIORITIES	97
10	1	ASSIGN	1,MH\$B\$B(1,P1)		98
11	ADVANCE	ADVANCE	MH\$CCC(32,11)	DELAY TIME	99
12	QUEUE	QUEUE	BSRUL		100
13	ENTER	ENTER	9ULL,MH\$AAA(P3,3)	CAPTURE BULLDOZER MAX 5	2
14	MARK	MARK	2	COPY CLOCK INTO PARAMETER 2	1
15	MSAVEVALUE	MSAVEVALUE	MMH,P1,1,VSARR,ML	SAVE START TIME FOR EACH PSA COMPONENT	101
16	DEPART	DEPART	BSBUL		37
17	ADVANCE	ADVANCE	VSAAA	CLEAR	38
18	LEAVE	LEAVE	BULL,MH\$AAA(P3,3)	FREE BULLDOZER	561
19	TEST E	TEST E	P1,2,BSAR	TEST FOR DUMP 1	562
20	ASSIGN	ASSIGN	3,7		563
21	ADVANCE	ADVANCE	MH\$CCC(32,11)	DELAY TIME	564
22	QUEUE	QUEUE	BSSCP		565
23	ENTER	ENTER	SCPR,MH\$AAA(P3,3)	CAPTURE SCRAPER MAX 1	102
24	DEPART	DEPART	PSSCP		103
25	ADVANCE	ADVANCE	VSAAA	DEPOSIT MATERIAL FOR BERMS	19
26	LEAVE	LEAVE	SCPR,MH\$AAA(P3,3)	FREE SCRAPER	566
27	ASSIGN	ASSIGN	3,8		567
28	ADVANCE	ADVANCE	MH\$CCC(32,11)	DELAY TIME	568
29	QUEUE	QUEUE	SSLO		3
30	ENTER	ENTER	SLDP,MH\$AAA(P3,3)	CAPTURE SCOOP LOADER MAX 1	3
31	DEPART	DEPART	SSLO		21
32	ADVANCE	ADVANCE	VSAAA	PILE EARTH, SHAPE BERMS	570
33	LEAVE	LEAVE	SLDP,MH\$AAA(P3,3)	FREE SCOOP LOADER	571
34	TRANSFER	TRANSFER	VSAA		22
35	TEST E	TEST E	P1,1,BSAF	TEST FOR BSA ROADS	572
36	ASSIGN	ASSIGN	3,9		573
37	ADVANCE	ADVANCE	MH\$CCC(32,11)	DELAY TIME	574
38	QUEUE	QUEUE	BSSCP		4
39	ENTER	ENTER	SCPR,MH\$AAA(P3,3)	CAPTURE SCRAPER MAX 1	5
40	DEPART	DEPART	PSSCP		5
41	ADVANCE	ADVANCE	VSAAA	STIP ROADS	7
42	LEAVE	LEAVE	SCPR,MH\$AAA(P3,3)	FREE SCRAPER	31
43	ASSIGN	ASSIGN	3,13		8
44	ADVANCE	ADVANCE	MH\$CCC(32,11)	DELAY TIME	586
45	QUEUE	QUEUE	BSDT9		587
46	ENTER	ENTER	OTRK,MH\$AAA(P3,3)	CAPTURE DUMP TRUCK MAX 1	588
47	DEPART	DEPART	VSAAA	FILL (SUBSURFACE)	589
48	ADVANCE	ADVANCE	OTRK,MH\$AAA(P3,3)	FREE DUMP TRUCK	590
49	LEAVE	LEAVE	3,11		6
50	ASSIGN	ASSIGN	MH\$CCC(32,11)	DELAY TIME	591
51	ADVANCE	ADVANCE	BSRLL		9
52	QUEUE	QUEUE	RLLR,MH\$AAA(P3,3)	CAPTURE ROLLER MAX 1	35
53	ENTER	ENTER	VSAAA	COMPACT (SUBSURFACE)	10
54	DEPART	DEPART	9SRL		594
55	ADVANCE	ADVANCE	9LLR,MH\$AAA(P3,3)	FREE ROLLER	595
56	LEAVE	LEAVE	3,12		596
57	ASSIGN	ASSIGN			597

BLOCK NUMBER	*LOC	OPERATION	A,3,C,0,E,F,G,H,I,J	COMMENTS	CARD NUMBER
58		ADVANCE	MSCCC(32,11)	DELAY TIME	PE0504 8
59		QUEUE	BSGRD		PE0321 13
60		ENTER	GRDR,MS\$AAA(P3,3)	CPTURE GRADER MAX 1	PE0320 43
61		DEPART	BSGRD		PE0321 14
62		ADVANCE	VSAAA	GRADE	PE0320 44
63		LEAVE	GRDR,MS\$AAA(P3,3)	FREE GRADER	PE0320 45
64		ASSIGN	3,13		PE0320 46
65		ADVANCE	MSCCC(32,11)	DELAY TIME	PE0504 9
66		QUEUE	BSOTR		PE0321 15
67		ENTER	DTRK,MS\$AAA(P3,3)	CAPTURE DUMP TRUCK MAX 1	PE0320 47
68		DEPART	BSOTR		PE0321 16
69		ADVANCE	VSAAA	FILL (SURFACE)	PE0320 48
70		LEAVE	DTRK,MS\$AAA(P3,3)	FREE DUMP TRUCK	PE0320 49
71		ASSIGN	3,14		PE0320 50
72		ADVANCE	MSCCC(32,11)	DELAY TIME	PE0504 10
73		QUEUE	BSOLL		PE0321 17
74		ENTER	RLLR,MS\$AAA(P3,3)	CAPTURE ROLLER MAX 1	PE0320 51
75		DEPART	BSOLL		PE0321 18
76		ADVANCE	VSAAA	COMPACT (SURFACE)	PE0320 52
77		LEAVE	RLLR,MS\$AAA(P3,3)	FREE ROLLER	PE0320 53
78	BSAF	MARK	2	COPY CLOCK INTO PARAMETER 2	PE1201 55
79		MSAVEVALUE	DDD,1,P1,VSAB,ML	PUT CLOCK VALUE IN MATRIX	PE1201 56
80		MSAVEVALUE	MMM,P1,2,VSAB,ML	SAVE COMPLETION TIME FOR EACH BSA COMPONENT	PE0823 40
81	BSAG	TERMINATE			PE0820 41
82		MODEL SEGMENT 3		MAIN SUPPLY ROUTES	PE1201 57
83		P1 = 6 = MSR1		TEMPORARY ROUTE	PE1130 38
84		P1 = 7 = MSR2		TEMPORARY ROUTE	PE1130 39
85		P1 = 8 = MSR3		TEMPORARY ROUTE	PE1130 40
86		P1 = 9 = MSR4		TEMPORARY ROUTE	PE1130 41
87		P1 = 10 = MSR1		PERMANENT ROUTE	PE1130 42
88		P1 = 11 = MSP2		PERMANENT ROUTE	PE1130 43
89		P1 = 12 = MSR3		PERMANENT ROUTE	PE1130 44
90		P1 = 13 = MSR4		PERMANENT ROUTE	PE1130 45
91		TEMPORARY ROUTES			PE1130 46
92		GENERATE	1,1,5	TEMPORARY ROUTES	PE1130 47
93		GATE LS	1	TEST FOR ARRIVAL OF EQUIPMENT	PE1130 48
94		ASSIGN	1,5		PE1130 49
95		SPLIT	3,MSRA,1	FOUR TRANSACTIONS REQUIRED	PE1130 50
96	MSRA	PRIORITY	VSPPRTY	ASSIGN PRIORITIES	PE1130 51
97		ASSIGN	4,P1		PE1130 52
98		ASSIGN	4,5		PE1130 53
99		ASSIGN	3,MSR8B(7,P4)		PE1130 54
100		ADVANCE	MSCCC(32,12)	DELAY TIME	PE1130 55
101		QUEUE	MSRUL		PE1130 56
102		ENTER	BULL,MS\$AAA(P3,3)	CAPTURE BULLDOZER MAX 4	PE1130 57
103		MARK	2	COPY CLOCK INTO PARAMETER 2	PE1130 58
104		MSAVEVALUE	MMM,P1,1,VSAB,ML	SAVE START TIME FOR EACH TEMPORARY MSR COMPONENT	PE1130 59
105		DEPART	MSBUL		PE1130 60

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MS P O C GPSS V/4000

BLOCK NUMBER	*LOC	OPERATION	A,B,C,D,E,F,G,H,I,J	COMMENTS	PE	CARD NUMBER
145	*	MSAVEVALUE	DD0,3,P4,V\$AAR,ML	PUT CLOCK VALUE IN MATRIX	PE1201	59
146	*	MSAVEVALUE	MM,P1,2,V\$AAB,ML	SAVE COMPLETION TIME FOR EACH PERMANENT MSR COMPONENT	PE0820	50
147	*	TERMINATE			PE1130	51
	*				PE1201	105
	*				PE1201	60
	*				PE1201	61
	*				PE1201	62
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	*				PE1201	195

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N S R C GPSS V/6000

BLOCK NUMBER	*LOC	OPERATION	A,B,C,D,E,F,G,H,I,J	COMMENTS	PEJ3J1	CARD NUMBER
227		GATE LS	2	TEST FOR COMPLETION OF TEMPORARY ROUTES	11	825
228		ADVANCE	MMSCC(120,9)	DELAY TIME BEFORE STARTING ASP CONSTRUCTION	6	826
229		ASSIGN	1,20		7	827
230		SPLIT	8,ASPA,1	NINE TRANSACTIONS REQUIRED	37	828
231	ASPA	PRIORITY	VERPRTY	ASSIGN PRIORITIES	38	829
232		ASSIGN	4,P1		39	830
233		ASSIGN	4-120		40	831
234		ASSIGN	3,MHSPR(21,P4)		41	832
235		ADVANCE	MHSCC(132,12)	DELAY TIME	42	833
236		QUEUE	ASBUL		24	834
237		ENTER	PULL,MH\$AAA(P3,3)	CAPTURE BULLDOZER MAX 9	45	835
238		WACK	2	COPY CLOCK INTO PARAMETER 2	43	836
239		MSAVEVALUE	MM,P1,1,V\$LAB,ML	SAVE START TIME FOR EACH ASP COMPONENT	57	837
240		DEPART	ASBUL		58	838
241		ADVANCE	V\$AAA	CLEAR	59	839
242		LEAVE	PULL,MH\$AAA(P3,3)	FREE BULLDOZER	46	840
243		TEST NF	P1,29,ASPH		44	841
244		TEST G	P1,24,ASPH		45	842
245		ASSIGN	3,MH\$B(21,P4)		46	843
246		ADVANCE	MHSCC(132,12)	DELAY TIME	47	844
247		QUEUE	ASSCP		48	845
248		ENTER	SCOP,MH\$AAA(P3,3)	CAPTURE SCRAPER MAX 4	25	846
249		DEPART	ASSCP		47	847
250		ADVANCE	V\$AAA	DEPOSIT MATERIAL FOR HERMS	49	848
251		LEAVE	SCOP,MH\$AAA(P3,3)	FREE SCRAPER	48	849
252		ASSIGN	3,MH\$B(21,P4)		50	850
253		ADVANCE	MHSCC(132,12)	DELAY TIME	51	851
254		QUEUE	ASSCP		52	852
255		ENTER	SLDP,MH\$AAA(P3,3)	CAPTURE SCOOP LOADER MAX 4	26	853
256		DEPART	ASSLD		49	854
257		ADVANCE	V\$AAA	PILE EARTH AT HERMS	53	855
258		LEAVE	SLDP,MH\$AAA(P3,3)	FREE SCOOP LOADER	50	856
259		ASSIGN	3,MH\$B(21,P4)		54	857
260		ADVANCE	MHSCC(132,12)	DELAY TIME	55	858
261		QUEUE	ASSCP		56	859
262		ENTER	GRDR,MH\$AAA(P3,3)	CAPTURE GRADER MAX 4	27	860
263		DEPART	ASSCP		51	861
264		ADVANCE	V\$AAA	SHAPE HERMS	57	862
265		LEAVE	GRDR,MH\$AAA(P3,3)	FREE GRADER	52	863
266		TRANSFPO	ASPH		58	864
267	ASPH	SPLIT	1,ASPC		59	865
268		ASSIGN	3,MH\$B(24,P4)		60	866
269		ADVANCE	MHSCC(132,12)	DELAY TIME	61	867
270		QUEUE	ASSCP		62	868
271		ENTER	PULL,MH\$AAA(P3,3)	CAPTURE ROLLER MAX 4	60	866
272		DEPART	ASSCP		61	867
273		ADVANCE	V\$AAA	COMPACT PADS	62	868
274		LEAVE	PULL,MH\$AAA(P3,3)	FREE ROLLER	28	869
275		ASSIGN	3,MH\$B(25,P4)		53	870
276		ADVANCE	MHSCC(132,12)	DELAY TIME	63	871
277		QUEUE	ASSCP		54	872
278		ENTER	GRDR,MH\$AAA(P3,3)	CAPTURE GRADER MAX 4	64	873
279		DEPART	ASSCP		65	874
					66	875
					29	876
					55	877
					67	878
					56	879

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CRM GPSS V/6000

MSR GPSS V/6000

BLOCK NUMBER	*LOC	OPERATION	A,B,C,D,F,G,H,I,J	COMMENTS	PE1206	CARD NUMBER
280		ADVANCE	V\$AAA	GRADE ROADS	PE1206	880
281		LEAVE	GROR,MX\$AAA(P3,3)	FREE GRADEP	PE1206	881
282		TRANSFER	ASPD		PE1206	882
283	ASPC	ASSIGN	3,MH\$R9R(26,P4)		PE1206	883
284		ADVANCE	MH\$CCC(32,12)	DELAY TIME	PE0504	884
285		QUEUE	ASSCP		PE0321	885
286		ENTER	SCPR,MX\$AAA(P3,3)	CAPTURE SCRAPER MAX 4	PE1206	886
287		DEPART	ASSCP		PE0321	887
288		ADVANCE	V\$AAA	STRIP ROADS	PE1206	888
289		LEAVE	SCPR,MX\$AAA(P3,3)	FREE SCRAPER	PE1206	889
290	ASPC	TEST E	P1,21,ASPE		PE1206	890
291		ASSEMBLE	2		PE1206	891
292		TRANSFER	ASPH		PE1206	892
293	ASPF	TEST E	P1,22,ASPF		PE1206	893
294		ASSEMBLE	2		PE1206	894
295		TRANSFER	ASPH		PE1206	895
296	ASPF	TEST F	P1,23,ASPG		PE1206	896
297		ASSEMBLE	2		PE1206	897
298		TRANSFER	ASPH		PE1206	898
299	ASPC	ASSEMBLE	2		PE1206	899
300	ASPH	MARK	2		PE1206	900
301		MSAVEVALUE	DDC,5,P4,V\$AAB,ML	COPY CLOCK INTO PARAMETER 2	PE1206	901
302		MSAVEVALUE	MH,M,P1,2,V\$AAB,ML	PUT CLOCK VALUE IN MATRIX	PE0820	902
				SAVE COMPLETION TIME FOR EACH	PE1208	903
				ASP COMPONENT	PE0525	904
303	ASPJ	TERMINATE			PE0525	905
					PE0525	906
					PE0525	907
					PE0525	908
					PE0525	909
					PE0525	910
					PE0525	911
					PE0525	912
304		GENERATE	1,1,4	AMPHIBIOUS ASSAULT FUEL SYSTEM (AAFS)	PE0525	913
305		GATE LS	2	TEST FOR COMPLETION OF TEMPORARY ROUTES	PE0525	914
306		ADVANCE	MH\$CCC(20,10)	DELAY TIME BEFORE STARTING	PE0819	915
				AAFS CONSTRUCTION	PE0819	916
307		ASSIGN	1,9		PE0525	917
308		SPLIT	3,AAFS4,1	FOUR TRANSACTIONS REQUIRED	PE0525	918
309	AAFS4	PRIORITY	V\$PRTY	ASSIGN PRIORITIES	PE0525	919
310		ASSIGN	4,P1		PE0525	920
311		ASSIGN	4,-9		PE0525	921
312		ASSIGN	3,MH\$R9R(27,P4)		PE0525	922
313		ADVANCE	MH\$CCC(32,12)	DELAY TIME	PE0525	923
314		QUEUE	ABUL		PE0525	924
315		ENTER	PULL,MX\$AAA(P3,3)	CAPTURE BULLDOZER MAX 4	PE0525	925
316		MARK	2		PE0820	926
317		MSAVEVALUE	MH,M,P1,1,V\$AAB,ML	COPY CLOCK INTO PARAMETER 2	PE0820	927
				SAVE START TIME FOR EACH	PE0525	928
				AAFS COMPONENT	PE0525	929
318		DEPART	AA\$UL		PE0525	930
319		ADVANCE	V\$AAA	CLEAR	PE0525	931
320		LEAVE	PULL,MX\$AAA(P3,3)	FREE BULLDOZER	PE0525	932
321		ASSIGN	3,MH\$R9R(28,P4)		PE0525	933
322		ADVANCE	MH\$CCC(32,12)	DELAY TIME	PE0525	934
323		QUEUE	AA\$RO		PE0525	935

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FLICK NUMBER	*LOC	OPERATION	A,B,C,D,E,F,G,H,I,J	COMMENTS	PE0525	CARD NUMBER
324		ENTER	GRDR,MX\$AAA(P3,3)	CAPTURE GRADER	MAX 4	41
325		DEPART	AACRD			42
326		ADVANCE	VSAAA	GRADE		43
327		LEAVE	GRDR,MX\$AAA(P3,3)	FREE GRADER		44
328		ASSIGN	3,MH\$BBB(24,P4)			45
329		ADVANCE	MH\$CCC(32,12)	DELAY TIME		46
330		QUEUE	AASCP			47
331		ENTER	GRDR,MX\$AAA(P3,3)	CAPTURE SCRAPER	MAX 4	48
332		DEPART	AASCP			49
333		ADVANCE	VSAAA	DEPOSIT BERM MATERIAL		50
334		LEAVE	GRDR,MX\$AAA(P3,3)	FREE SCRAPER		51
335		ASSIGN	3,MH\$BBB(30,P4)			52
336		ADVANCE	MH\$CCC(32,12)	DELAY TIME		53
337		QUEUE	AASLO			54
338		ENTER	SLDR,MX\$AAA(P3,3)	CAPTURE SCOOP LOADER	MAX 4	55
339		DEPART	AASLO			56
340		ADVANCE	VSAAA	PILE EARTH AT BERM		57
341		LEAVE	SLDR,MX\$AAA(P3,3)	FREE SCOOP LOADER		58
342		ASSIGN	3,MH\$BBB(31,P4)			59
343		ADVANCE	MH\$CCC(32,12)	DELAY TIME		60
344		QUEUE	AACRD			61
345		ENTER	GRDR,MX\$AAA(P3,3)	CAPTURE GRADER	MAX 4	62
346		DEPART	AACRD			63
347		ADVANCE	VSAAA	SHAPE BERM		64
348		LEAVE	GRDR,MX\$AAA(P3,3)	FREE GRADER		65
349		MARK	2	COPY CLOCK INTO PARAMETER 2		66
350		MSAVEVALUE	DDD,6,P4,VSAAAB,ML	PUT CLOCK VALUE IN MATRIX		67
351		MSAVEVALUE	MMH,P1,2,VSAAAB,ML	SAVE COMPLETION TIME FOR EACH AAFS COMPONENT		68
352		TERMINATE				69
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BLOCK NUMBER	*LOC	OPERATION	A,B,C,D,E,P,G,H,I,J	COMMENTS	CARD NUMBER
359	*	GENERATE	XMSAEC21,,XMSAEC22,XMSAEC23		3 990
360	*	ASSIGN	1,2	ASSIGN CARGO TYPE	20 991
361	*	ASSIGN	2,XMSAEC24	NUMBER OF PALLET PER LIGHTER	4 992
362	*	MSAVEVALUE	FFF,1,P1,VSAAN	UPDATE AMOUNT OF TYPE 2 CARGO	22 993
				WAITING AT BEACH	23 994
363	*	UNLINK	PH1,RETRY,ALL		2 995
364	*	TERMINATE			24 996
365	*	TYPE 3 CARGO	FOR ASSAULT ECHELON INITIAL SUPPLY		25 997
366	*	GENERATE	XMSAEC31,,XMSAEC32,XMSAEC33		5 998
367	*	ASSIGN	1,3	ASSIGN CARGO TYPE	27 999
368	*	ASSIGN	2,XMSAEC34	NUMBER OF PALLET PER LIGHTER	6 1000
369	*	MSAVEVALUE	FFF,1,P1,VSAAN	UPDATE AMOUNT OF TYPE 3 CARGO	29 1001
				WAITING AT BEACH	30 1002
370	*	UNLINK	PH1,RETRY,ALL		3 1003
371	*	TERMINATE			31 1004
372	*	TYPE 4 CARGO	FOR ASSAULT ECHELON INITIAL SUPPLY		32 1005
373	*	GENERATE	XMSAEC41,,XMSAEC42,XMSAEC43		7 1006
374	*	ASSIGN	1,4		34 1007
375	*	ASSIGN	2,XMSAEC44	NUMBER OF CONTAINERS PER LIGHTER	8 1008
376	*	MSAVEVALUE	FFF,1,P1,VSAAN	UPDATE AMOUNT OF TYPE 4 CARGO	36 1009
				WAITING AT BEACH	37 1010
377	*	UNLINK	PH1,RETRY,ALL		4 1011
378	*	TERMINATE			38 1012
379	*	TYPE 5 CARGO	FOR ASSAULT ECHELON INITIAL SUPPLY		39 1013
380	*	GENERATE	XMSAEC51,,XMSAEC52,XMSAEC53		9 1014
381	*	ASSIGN	1,5	ASSIGN CARGO TYPE	41 1015
382	*	ASSIGN	2,XMSAEC54	NUMBER OF CONTAINERS PER LIGHTER	10 1016
383	*	MSAVEVALUE	FFF,1,P1,VSAAN	UPDATE AMOUNT OF TYPE 5 CARGO	43 1017
				WAITING AT BEACH	44 1018
384	*	UNLINK	PH1,RETRY,ALL		5 1019
385	*	TERMINATE			45 1020
386	*	TYPE 6 CARGO	FOR ASSAULT ECHELON INITIAL SUPPLY		46 1021
387	*	GENERATE	XMSAEC61,,XMSAEC62,XMSAEC63		11 1022
388	*	ASSIGN	1,6	ASSIGN CARGO TYPE	48 1023
389	*	ASSIGN	2,XMSAEC64	NUMBER OF CONTAINERS PER LIGHTER	12 1024
390	*	MSAVEVALUE	FFF,1,P1,VSAAN	UPDATE AMOUNT OF TYPE 6 CARGO	50 1025
				WAITING AT BEACH	51 1026
391	*	UNLINK	PH1,RETRY,ALL		6 1027
392	*	TERMINATE			52 1028
393	*	TYPE 7 CARGO	FOR ASSAULT ECHELON INITIAL SUPPLY		53 1029
394	*	GENERATE	XMSAEC71,,XMSAEC72,XMSAEC73		13 1030
395	*	ASSIGN	1,7	ASSIGN CARGO TYPE	55 1031
396	*	ASSIGN	2,XMSAEC74	NUMBER OF CONTAINERS PER LIGHTER	14 1032
397	*	MSAVEVALUE	FFF,1,P1,VSAAN	UPDATE AMOUNT OF TYPE 7 CARGO	57 1033
				WAITING AT BEACH	58 1034
398	*	UNLINK	PH1,RETRY,ALL		7 1035
399	*	TERMINATE			59 1036
400	*	TYPE 8 CARGO	FOR ASSAULT ECHELON INITIAL SUPPLY		60 1037
		GENERATE	XMSAEC81,,XMSAEC82,XMSAEC83		15 1038
		ASSIGN	1,8	ASSIGN CARGO TYPE	62 1039
		ASSIGN	2,XMSAEC84	NUMBER OF CONTAINERS PER LIGHTER	16 1040
		MSAVEVALUE	FFF,1,P1,VSAAN	UPDATE AMOUNT OF TYPE 8 CARGO	64 1041
				WAITING AT BEACH	65 1042
		UNLINK	PH1,RETRY,ALL		8 1043
		TERMINATE			66 1044

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BLOCK NUMBER	*LOC	OPERATION	A,B,C,D,E,F,G,H,I,J	COMMENTS	CARD NUMBER
401	*	TYPE 9 CARGO FOR ASSAULT ECHELON INITIAL SUPPLY			PE0712 67
402	*	GENERATE XHSAEC91,,XSAEC92,XHSAEC93			PE0033 17
403	*	ASSIGN 1,9 ASSIGN CARGO TYPE			PE0712 69
404	*	ASSIGN 2,XHSAEC94 NUMBER OF CONTAINERS PER LIGHTER			PE0803 18
405	*	MSAVEVALUE FFF,1,P1,VSAAN UPDATE AMOUNT OF TYPE 9 CARGO			PE0712 71
406	*	WAITING AT BEACH			PE0712 72
407	*	UNLINK PH1,RETRY,ALL			PE0731 9
408	*	TERMINATE			PE0712 73
409	*	TYPE 1 CARGO FOR ASSAULT FOLLOW-ON ECHELON INITIAL SUPPLY			PE0714 7
410	*	GENERATE XHSAFE11,,XSAFE12,XHSAFE13			PE0033 19
411	*	ASSIGN 1,1 ASSIGN CARGO TYPE			PE0714 9
412	*	ASSIGN 2,XHSAFE14 NUMBER OF PALLETS PER LIGHTER			PE0803 20
413	*	MSAVEVALUE FFF,1,P1,VSAAN UPDATE AMOUNT OF TYPE 1 CARGO			PE0714 11
414	*	WAITING AT BEACH			PE0714 12
415	*	UNLINK PH1,RETRY,ALL			PE0731 10
416	*	TERMINATE			PE0714 13
417	*	TYPE 2 CARGO FOR ASSAULT FOLLOW-ON ECHELON INITIAL SUPPLY			PE0714 14
418	*	GENERATE XHSAFE21,,XSAFE22,XHSAFE23			PE0033 21
419	*	ASSIGN 1,2 ASSIGN CARGO TYPE			PE0714 16
420	*	ASSIGN 2,XHSAFE24 NUMBER OF PALLETS PER LIGHTER			PE0803 22
421	*	MSAVEVALUE FFF,1,P1,VSAAN UPDATE AMOUNT OF TYPE 2 CARGO			PE0714 18
422	*	WAITING AT BEACH			PE0714 19
423	*	UNLINK PH1,RETRY,ALL			PE0731 11
424	*	TERMINATE			PE0714 20
425	*	TYPE 3 CARGO FOR ASSAULT FOLLOW-ON ECHELON INITIAL SUPPLY			PE0714 21
426	*	GENERATE XHSAFE31,,XSAFE32,XHSAFE33			PE0033 23
427	*	ASSIGN 1,3 ASSIGN CARGO TYPE			PE0714 23
428	*	ASSIGN 2,XHSAFE34 NUMBER OF PALLETS PER LIGHTER			PE0803 24
429	*	MSAVEVALUE FFF,1,P1,VSAAN UPDATE AMOUNT OF TYPE 3 CARGO			PE0714 25
430	*	WAITING AT BEACH			PE0714 26
431	*	UNLINK PH1,RETRY,ALL			PE0731 12
432	*	TERMINATE			PE0714 27
433	*	TYPE 4 CARGO FOR ASSAULT FOLLOW-ON ECHELON INITIAL SUPPLY			PE0714 28
434	*	GENERATE XHSAFE41,,XSAFE42,XHSAFE43			PE0033 25
435	*	ASSIGN 1,4 ASSIGN CARGO TYPE			PE0714 30
436	*	ASSIGN 2,XHSAFE44 NUMBER OF CONTAINERS PER LIGHTER			PE0803 26
437	*	MSAVEVALUE FFF,1,P1,VSAAN UPDATE AMOUNT OF TYPE 4 CARGO			PE0714 32
438	*	WAITING AT BEACH			PE0714 33
439	*	UNLINK PH1,RETRY,ALL			PE0731 13
440	*	TERMINATE			PE0714 34
441	*	TYPE 5 CARGO FOR ASSAULT FOLLOW-ON ECHELON INITIAL SUPPLY			PE0714 35
442	*	GENERATE XHSAFE51,,XSAFE52,XHSAFE53			PE0033 27
443	*	ASSIGN 1,5 ASSIGN CARGO TYPE			PE0714 37
444	*	ASSIGN 2,XHSAFE54 NUMBER OF CONTAINERS PER LIGHTER			PE0803 28
445	*	MSAVEVALUE FFF,1,P1,VSAAN UPDATE AMOUNT OF TYPE 5 CARGO			PE0714 39
446	*	WAITING AT BEACH			PE0714 40
447	*	UNLINK PH1,RETRY,ALL			PE0731 14
448	*	TERMINATE			PE0714 41
449	*	TYPE 6 CARGO FOR ASSAULT FOLLOW-ON ECHELON INITIAL SUPPLY			PE0714 42
450	*	GENERATE XHSAFE61,,XSAFE62,XHSAFE63			PE0033 29
451	*	ASSIGN 1,5 ASSIGN CARGO TYPE			PE0714 44
452	*	ASSIGN 2,XHSAFE64 NUMBER OF CONTAINERS PER LIGHTER			PE0803 30
453	*	MSAVEVALUE FFF,1,P1,VSAAN UPDATE AMOUNT OF TYPE 6 CARGO			PE0714 46
454	*	WAITING AT BEACH			PE0714 47
455	*	UNLINK PH1,RETRY,ALL			PE0731 15

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BLOCK NUMBER	*LOC	OPERATION	A,B,C,D,E,F,G,H,I,J	COMMENTS	CARD NUMBER
442	*	TERMINATE			PE0714 48
443	*	TYPE 7 CARGO FOR ASSAULT FOLLOW-ON ECHELON INITIAL SUPPLY			PE0714 49
444	*	GENERATE	XH\$AFE71,,X\$AFE72,XH\$AFE73		PE0803 31
445	*	ASSIGN	1,7 ASSIGN CARGO TYPE		PE0714 51
446	*	ASSIGN	2,XH\$AFE74 NUMBER OF CONTAINERS PER LIGHTER		PE0803 32
447	*	MSAVEVALUE	FFF,1,P1,V\$AAN UPDATE AMOUNT OF TYPE 7 CARGO		PE0714 53
448	*	WAITING AT BEACH			PE0714 54
449	*	UNLINK	PH1,RETRY,ALL		PE0731 16
450	*	TERMINATE			PE0714 55
451	*	TYPE 8 CARGO FOR ASSAULT FOLLOW-ON ECHELON INITIAL SUPPLY			PE0714 56
452	*	GENERATE	XH\$AFE81,,X\$AFE82,XH\$AFE83		PE0803 33
453	*	ASSIGN	1,8 ASSIGN CARGO TYPE		PE0714 58
454	*	ASSIGN	2,XH\$AFE84 NUMBER OF CONTAINERS PER LIGHTER		PE0803 34
455	*	MSAVEVALUE	FFF,1,P1,V\$AAN UPDATE AMOUNT OF TYPE 8 CARGO		PE0714 60
456	*	WAITING AT BEACH			PE0714 61
457	*	UNLINK	PH1,RETRY,ALL		PE0731 17
458	*	TERMINATE			PE0714 62
459	*	TYPE 9 CARGO FOR ASSAULT FOLLOW-ON ECHELON INITIAL SUPPLY			PE0714 63
460	*	GENERATE	XH\$AFE91,,X\$AFE92,XH\$AFE93		PE0803 35
461	*	ASSIGN	1,9 ASSIGN CARGO TYPE		PE0714 65
462	*	ASSIGN	2,XH\$AFE94 NUMBER OF CONTAINERS PER LIGHTER		PE0803 36
463	*	MSAVEVALUE	FFF,1,P1,V\$AAN UPDATE AMOUNT OF TYPE 9 CARGO		PE0714 67
464	*	WAITING AT BEACH			PE0714 68
465	*	UNLINK	PH1,RETRY,ALL		PE0731 18
466	*	TERMINATE			PE0714 69
467	*	TYPE 1 CARGO FOR FORCE RESUPPLY FOR MISSION DURATION			PE0717 9
468	*	GENERATE	XH\$FRM11,,X\$FRM12,XH\$FRM13		PE0803 37
469	*	ASSIGN	1,1 ASSIGN CARGO TYPE		PE0717 11
470	*	ASSIGN	2,XH\$FRM14 NUMBER OF PALLETS PER LIGHTER		PE0803 38
471	*	MSAVEVALUE	FFF,1,P1,V\$AAN UPDATE AMOUNT OF TYPE 1 CARGO		PE0717 13
472	*	WAITING AT BEACH			PE0717 14
473	*	UNLINK	PH1,RETRY,ALL		PE0731 19
474	*	TERMINATE			PE0717 15
475	*	TYPE 2 CARGO FOR FORCE RESUPPLY FOR MISSION DURATION			PE0717 16
476	*	GENERATE	XH\$FRM21,,X\$FRM22,XH\$FRM23		PE0803 39
477	*	ASSIGN	1,2 ASSIGN CARGO TYPE		PE0717 18
478	*	ASSIGN	2,XH\$FRM24 NUMBER OF PALLETS PER LIGHTER		PE0803 40
479	*	MSAVEVALUE	FFF,1,P1,V\$AAN UPDATE AMOUNT OF TYPE 2 CARGO		PE0717 20
480	*	WAITING AT BEACH			PE0717 21
481	*	UNLINK	PH1,RETRY,ALL		PE0731 20
482	*	TERMINATE			PE0717 22
483	*	TYPE 3 CARGO FOR FORCE RESUPPLY FOR MISSION DURATION			PE0717 23
484	*	GENERATE	XH\$FRM31,,X\$FRM32,XH\$FRM33		PE0803 41
485	*	ASSIGN	1,3 ASSIGN CARGO TYPE		PE0717 25
486	*	ASSIGN	2,XH\$FRM34 NUMBER OF PALLETS PER LIGHTER		PE0803 42
487	*	MSAVEVALUE	FFF,1,P1,V\$AAN UPDATE AMOUNT OF TYPE 3 CARGO		PE0717 27
488	*	WAITING AT BEACH			PE0717 28
489	*	UNLINK	PH1,RETRY,ALL		PE0731 21
490	*	TERMINATE			PE0717 29
491	*	TYPE 4 CARGO FOR FORCE RESUPPLY FOR MISSION DURATION			PE0717 30
492	*	GENERATE	XH\$FRM41,,X\$FRM42,XH\$FRM43		PE0803 43
493	*	ASSIGN	1,4 ASSIGN CARGO TYPE		PE0717 32
494	*	ASSIGN	2,XH\$FRM44 NUMBER OF CONTAINERS PER LIGHTER		PE0803 44
495	*	MSAVEVALUE	FFF,1,P1,V\$AAN UPDATE AMOUNT OF TYPE 4 CARGO		PE0717 34
496	*	WAITING AT BEACH			PE0717 35

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ALPHA NUMBER	*LOC	OPERATION	A,B,C,D,E,F,G,H,I,J	COMMENTS	PE0731	CARD NUMBER
487		UNLINK	PH1,RETRY,ALL		PE0731	22
494		TERMINATE			PE0717	1155
495		TYPE 5 CARGO FOR FORCE RESUPPLY FOR MISSION DURATION			PE0717	36
496		GENERATE	XHFRM51,,XHFRM52,XHFRM53		PE0717	37
497		ASSIGN	1,5 ASSIGN CARGO TYPE		PE0803	45
498		ASSIGN	2,XHFRM54 NUMBER OF CONTAINERS PER LIGHTER		PE0717	39
499		MSAVEVALUE	FFF,1,P1,V8AAN UPDATE AMOUNT OF TYPE 5 CARGO		PE0803	46
500		MSAVEVALUE	FFF,1,P1,V8AAN UPDATE AMOUNT OF TYPE 5 CARGO		PE0717	41
501		UNLINK	PH1,RETRY,ALL		PE0717	42
502		TERMINATE			PE0731	1163
503		TYPE 6 CARGO FOR FORCE RESUPPLY FOR MISSION DURATION			PE0717	23
504		GENERATE	XHFRM61,,XHFRM62,XHFRM63		PE0717	43
505		ASSIGN	1,6 ASSIGN CARGO TYPE		PE0717	44
506		ASSIGN	2,XHFRM64 NUMBER OF CONTAINERS PER LIGHTER		PE0803	47
507		MSAVEVALUE	FFF,1,P1,V8AAN UPDATE AMOUNT OF TYPE 6 CARGO		PE0717	46
508		MSAVEVALUE	FFF,1,P1,V8AAN UPDATE AMOUNT OF TYPE 6 CARGO		PE0803	48
509		UNLINK	PH1,RETRY,ALL		PE0717	48
510		TERMINATE			PE0717	49
511		TYPE 7 CARGO FOR FORCE RESUPPLY FOR MISSION DURATION			PE0731	24
512		GENERATE	XHFRM71,,XHFRM72,XHFRM73		PE0717	51
513		ASSIGN	1,7 ASSIGN CARGO TYPE		PE0803	49
514		ASSIGN	2,XHFRM74 NUMBER OF CONTAINERS PER LIGHTER		PE0717	53
515		MSAVEVALUE	FFF,1,P1,V8AAN UPDATE AMOUNT OF TYPE 7 CARGO		PE0803	50
516		MSAVEVALUE	FFF,1,P1,V8AAN UPDATE AMOUNT OF TYPE 7 CARGO		PE0717	55
517		UNLINK	PH1,RETRY,ALL		PE0717	56
518		TERMINATE			PE0731	25
519		TYPE 8 CARGO FOR FORCE RESUPPLY FOR MISSION DURATION			PE0717	57
520		GENERATE	XHFRM81,,XHFRM82,XHFRM83		PE0717	58
521		ASSIGN	1,8 ASSIGN CARGO TYPE		PE0803	51
522		ASSIGN	2,XHFRM84 NUMBER OF CONTAINERS PER LIGHTER		PE0717	60
523		MSAVEVALUE	FFF,1,P1,V8AAN UPDATE AMOUNT OF TYPE 8 CARGO		PE0803	52
524		MSAVEVALUE	FFF,1,P1,V8AAN UPDATE AMOUNT OF TYPE 8 CARGO		PE0717	62
525		UNLINK	PH1,RETRY,ALL		PE0717	63
526		TERMINATE			PE0731	26
527		TYPE 9 CARGO FOR FORCE RESUPPLY FOR MISSION DURATION			PE0717	64
528		GENERATE	XHFRM91,,XHFRM92,XHFRM93		PE0717	65
529		ASSIGN	1,9 ASSIGN CARGO TYPE		PE0803	53
530		ASSIGN	2,XHFRM94 NUMBER OF CONTAINERS PER LIGHTER		PE0717	67
531		MSAVEVALUE	FFF,1,P1,V8AAN UPDATE AMOUNT OF TYPE 9 CARGO		PE0803	54
532		MSAVEVALUE	FFF,1,P1,V8AAN UPDATE AMOUNT OF TYPE 9 CARGO		PE0717	69
533		UNLINK	PH1,RETRY,ALL		PE0717	70
534		TERMINATE			PE0731	27
535		TYPE 10 CARGO FOR FORCE RESUPPLY FOR MISSION DURATION			PE0717	71
536		GENERATE	XHFRM101,,XHFRM102,XHFRM103		PE0717	72
537		ASSIGN	1,10 ASSIGN CARGO TYPE		PE0803	55
538		ASSIGN	2,XHFRM104 NUMBER OF CONTAINERS PER LIGHTER		PE0717	74
539		MSAVEVALUE	FFF,1,P1,V8AAN UPDATE AMOUNT OF TYPE 10 CARGO		PE0803	56
540		MSAVEVALUE	FFF,1,P1,V8AAN UPDATE AMOUNT OF TYPE 10 CARGO		PE0717	76
541		UNLINK	PH1,RETRY,ALL		PE0717	77
542		TERMINATE			PE0731	28
543		TYPE 11 CARGO FOR FORCE RESUPPLY FOR MISSION DURATION			PE0717	78
544		GENERATE	XHFRM111,,XHFRM112,XHFRM113		PE0717	79
545		ASSIGN	1,11 ASSIGN CARGO TYPE		PE0803	57
546		ASSIGN	2,XHFRM114 NUMBER OF CONTAINERS PER LIGHTER		PE0717	81
547		MSAVEVALUE	FFF,1,P1,V8AAN UPDATE AMOUNT OF TYPE 11 CARGO		PE0803	58
548		MSAVEVALUE	FFF,1,P1,V8AAN UPDATE AMOUNT OF TYPE 11 CARGO		PE0717	83

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CARD
NUMBER

QLOCK NUMBER	*LOC	OPERATION	A,R,C,D,E,F,G,H,I,J	COMMENTS	CARD NUMBER
525	*	UNLINK	PH1,RETRY,ALL	WAITING AT BEACH	PE0717 84
526	*	TERMINATE			PE0731 29
527	*	TYPE 13 CARGO FOR FORCE RESUPPLY FOR MISSION DURATION			PE0717 85
528	*	GENERATE	XHSFRM01,,XHSFRM02,XHSFRM03		PE0717 86
529	*	ASSIGN	1,13 ASSIGN CARGO TYPE		PE0813 59
530	*	ASSIGN	2,XHSFRM04 NUMBER OF UNITS PER LIGHTER		PE0717 88
531	*	MSAVEVALUE	FFF,1,P1,V\$AAN UPDATE AMOUNT OF TYPE 13 CARGO		PE0803 60
532	*	UNLINK	PH1,RETRY,ALL	WAITING AT BEACH	PE0717 91
533	*	TERMINATE			PE0731 30
534	*	GENERATE	,,,1,,13		PE0731 31
535	AAA	SPLIT	12,AAA,1 THIRTEEN TRANSACTIONS REQUIRED		PE0412 104
536	*	TEST L	P1,10,CAA TEST FOR CARGO TYPES 1-9		PE0412 105
537	*	TEST L	P1,4,AAA TEST FOR BREAK BULK CARGO		PE0412 106
538	*	ASSIGN	4,MHSCCC(10,P1) ASSIGN NUMBER OF PALLETS ON TRUCK		PE0412 107
539	*	TEST GE	MH\$FFFF(1,P1),P4,HACFL TEST FOR TRUCKLOAD OF CARGO TYPE P1		PE0731 32
540	*	ASSIGN	3,MHSCCC(17,P1) ASSIGN BEACH FORKLIFT		PE0412 113
541	*	ENTER	P3		PE0612 64
542	*	DEPART	P3		PE0412 114
543	*	ENTER	TRK9 CAPTURE TRUCK		PE0612 65
544	*	ENTER	TRK8		PE0612 66
545	*	MSAVEVALUE	FFF,1,P1,V\$AAO SUBTRACT CARGO TYPE 1 LOADED ON TRUCK FROM CARGO TYPE 1 AT BEACH		PE0523 4
546	*	SPLIT	1,AAO		PE0612 67
547	*	ASSIGN	5,MHSCCC(8,P1) NUMBER OF FORKLIFTS		PE0412 116
548	*	ASSIGN	6,MHSCCC(9,P1) NUMBER OF PALLETS / HOUR		PE0412 117
549	*	ADVANCE	V\$AAD UNLOAD LIGHTER, LOAD PALLETS ON TRUCK		PE0412 118
550	*	LEAVE	P3,MHSCCC(8,P1) FREE BEACH FORKLIFT		PE0412 119
551	*	TEST E	9VLSAGP,1,AAG TEST IF LSA COMPLETE AND IF CARGO IS TYPE 1 OR TYPE 2		PE0412 120
552	*	TRANSFER	AAK		PE0412 123
553	AAFL	TRANSFER	S9P,XHAT,13PH		PE1208 124
554	*	TRANSFER	AAO		PE0731 34
555	AAG	TEST F	BVERSOP,1,AAH TEST IF ASP COMPLETE AND IF CARGO IS TYPE 3		PE0731 35
556	*	TRANSFER	AAH		PE1238 63
557	*	DELIVER BREAK BULK CARGO TO BSA			PE1238 64
558	AAH	ASSIGN	5,MHSCCC(14,12) DISTANCE FROM BEACH TO BSA		PE1208 66
559	*	ASSIGN	6,MHSCCC(11,P1) SPEED OF TRUCK		PE1238 67
560	*	ADVANCE	V\$AAG MOVE TO BSA		PE1208 68
561	*	ASSIGN	3,MHSCCC(12,P1) ASSIGN BSA FORKLIFT		PE1215 13
562	*	ENTER	P3		PE1215 14
563	*	ENTER	P3,MHSCCC(13,P1) CAPTURE BSA FORKLIFT		PE1215 15
564	*	DEPART	P3		PE1238 70
565	*	ASSIGN	5,MHSCCC(13,P1) NUMBER OF FORKLIFTS		PE0612 68
566	*				PE1238 71
567	*				PE0612 69
568	*				PE1208 72

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BLOCK NUMBER	*LOC	OPERATION	A,B,C,D,E,F,G,H,I,J	COMMENTS	PE1200	CARD NUMBER
566		ASSIGN	6,MHSCCC(14,P1)	NUMBER OF PALLETS / HOUR	73	1265
567		ADVANCE	VSAAD	UNLOAD TRUCK	74	1266
568		SPLIT	1,AAJ		75	1267
569		ASSIGN	5,MHSCCC(14,12)	DISTANCE FROM BEACH TO BSA	16	1268
570		ASSIGN	6,MHSCCC(15,P1)	SPEED OF TRUCK	17	1269
571		ADVANCE	VSAAG	TRUCK RETURNS TO BEACH	18	1270
572		LEAVE	TRKB	FREE TRUCK	5	1271
573		TERMINATE			78	1272
574	AAJ	ASSIGN	6,MHSCCC(16,P1)	NUMBER OF PALLETS / HOUR	79	1273
575		ADVANCE	VSAAD	MOVE MATERIAL TO STORAGE	80	1274
576		LEAVE	P3,MHSCCC(13,P1)	FREE BSA FORKLIFT	81	1275
577		MSAVEVALUE	EEF,1,P1,VSAAC,H	COMPUTE NUMBER OF PALLETS OF THIS TYPE DELIVERED	82	1276
578	*	MSAVEVALUE	EEF,3,P1,VSAAP,H	COMPUTE NUMBER OF PALLETS OF THIS TYPE DELIVERED TO BSA	83	1277
579	*	TERMINATE			4	1278
	*				5	1279
	*	DELIVER BREAK BULK CARGO TO LSA			84	1280
	*				85	1281
	*				86	1282
580	AAK	ASSIGN	5,MHSCCC(14,11)	DISTANCE FROM BEACH TO LSA	87	1283
581		ASSIGN	6,MHSCCC(17,P1)	SPEED OF TRUCK	19	1284
582		ADVANCE	VSAAG	MOVE TO LSA	20	1285
583		ASSIGN	3,MHSCCC(18,P1)	ASSIGN LSA FORKLIFT	21	1286
584		CURVE	P3		89	1287
585		ENTER	P3,MHSCCC(19,P1)	CAPTURE LSA FORKLIFT	70	1288
586		DEPART	P3		90	1289
587		ASSIGN	5,MHSCCC(19,P1)	NUMBER OF FORKLIFTS	71	1290
588		ASSIGN	6,MHSCCC(20,P1)	NUMBER OF PALLETS / HOUR	91	1291
589		ADVANCE	VSAAC	UNLOAD TRUCK	92	1292
590		SPLIT	1,AAL		93	1293
591		ASSIGN	5,MHSCCC(14,11)	DISTANCE FROM BEACH TO LSA	94	1294
592		ASSIGN	6,MHSCCC(21,P1)	SPEED OF TRUCK	22	1295
593		ADVANCE	VSAAG	TRUCK RETURNS TO BEACH	23	1296
594		LEAVE	TRKB	FREE TRUCK	24	1297
595		TERMINATE			6	1298
596	AAL	ASSIGN	6,MHSCCC(22,P1)	NUMBER OF PALLETS / HOUR	97	1299
597		ADVANCE	VSAAD	MOVE MATERIAL TO STORAGE	98	1300
598		LEAVE	P3,MHSCCC(19,P1)	FREE LSA FORKLIFT	99	1301
599	*	MSAVEVALUE	EEF,1,P1,VSAAC,H	COMPUTE NUMBER OF PALLETS OF THIS TYPE DELIVERED	100	1302
600	*	MSAVEVALUE	EEF,4,P1,VSAAD,H	COMPUTE NUMBER OF PALLETS OF THIS TYPE DELIVERED TO LSA	101	1303
601	*	TERMINATE			102	1304
	*				6	1305
	*				7	1306
	*	DELIVER BREAK BULK CARGO TO ASP			103	1307
	*				104	1308
602	AAM	TEST L	MHSEEE(2,14),100,AAH	TEST AMOUNT OF CARGO ROUTED TO ASP 1	105	1309
603	*	ASSIGN	7,1	USE ASP 1	106	1310
604		ASSIGN	8,14		3	1311
605		TRANSFER	AAR		4	1312
606	AAN	TEST L	MHSEEE(2,15),100,AAP	TEST AMOUNT OF CARGO ROUTED TO ASP 2	5	1313
607	*	ASSIGN	7,2	USE ASP 2	6	1314
608	*	ASSIGN	8,15		110	1315
					7	1316
					8	1317
					9	1318
					10	1319

BLOCK NUMBER	*LOC	OPERATION	A,B,C,D,E,F,G,H,I,J	COMMENTS	CARD NUMBER
600		TRANSFER	1,AA		PE1200 113
610	AA	TFST L	MHSEEE(2,16),100,AA	TEST AMOUNT OF CARGO ROUTED TO ASP 3	PE0309 11
611	*	ASSIGN	7,3	USE ASP 3	PE0309 12
612		ASSIGN	8,16		PE0309 13
613		TRANSFER	1,AA		PE0309 14
614	AA	ASSIGN	7,4	USE ASP 4	PE1200 116
615		ASSIGN	8,17		PE1200 117
616	AA	MSAVEVALUE	EEE,2,P8,V\$AAH,H	COMPUTE NUMBER OF AMMO PALLETS ROUTED TO ASP DUMP NUMBER P7	PE0309 15
617	*	ASSIGN	5,MX\$FFFF(3,P7)	DISTANCE FROM SHORE TO ASP P7	PE0309 16
618		ASSIGN	6,MH\$CCCC(4,3,P7)	SPEED OF TRUCK	PE0309 17
619		ADVANCE	V\$AAG	MOVE TO ASP	PE0309 18
620		ASSIGN	3,MH\$CCCC(4,4,P7)	ASSIGN ASP FORKLIFT	PE0111 15
621		QUEUE	P3		PE0111 16
622		ENTER	P3,MH\$CCCC(4,5,P7)	CAPTURE ASP FORKLIFT	PE0111 17
623		DEPART	P3		PE0612 72
624		ASSIGN	5,MH\$CCCC(4,5,P7)	NUMBER OF FORKLIFTS	PE0111 18
625		ASSIGN	6,MH\$CCCC(4,6,P7)	NUMBER OF PALLETS / HOUR	PE0111 19
626		ADVANCE	V\$AAD	UNLOAD TRUCK	PE0111 20
627		SPLIT	1,AA		PE0111 21
628		ASSIGN	5,MX\$FFFF(3,P7)	DISTANCE FROM SHORE TO ASP	PE0111 22
629		ASSIGN	6,MH\$CCCC(4,7,P7)	SPEED OF TRUCK	PE0111 23
630		ADVANCE	V\$AAG	TRUCK RETURNS TO BEACH	PE0111 24
631		LEAVE	TRK8	FREE TRUCK	PE0111 25
632		TERMINATE			PE0523 7
633	AA	ASSIGN	5,MH\$CCCC(4,5,P7)	NUMBER OF FORKLIFTS	PE0111 27
634		ASSIGN	6,MH\$CCCC(4,8,P7)	NUMBER OF PALLETS / HOUR	PE0111 28
635		ADVANCE	V\$AAD	MOVE MATERIAL TO STORAGE	PE0111 29
636		LEAVE	P3,MH\$CCCC(4,5,P7)	FREE ASP FORKLIFT	PE0111 30
637	*	MSAVEVALUE	EEE,1,P1,V\$AAC,H	COMPUTE NUMBER OF PALLETS OF THIS TYPE DELIVERED	PE0111 31
638		MSAVEVALUE	EEE,4,P1,V\$AAQ,H	COMPUTE NUMBER OF PALLETS OF THIS TYPE DELIVERED TO ASP	PE1200 130
639	*	MSAVEVALUE	EEE,1,P8,V\$AAE,H	COMPUTE NUMBER OF AMMO PALLETS DELIVERED TO ASP DUMP NUMBER P7	PE1200 131
640	*	TERMINATE			PE0418 8
641	AA	ASSIGN	4,MH\$CCCC(10,P1)	ASSIGN NUMBER OF CONTAINERS ON TRUCK	PE0309 9
642	AA	TEST GE	MX\$FFFF(1,P1),P4,BABFL	TEST FOR TRUCKLOAD OF CARGO TYPE P1	PE1200 133
643	*	ASSIGN	3,MH\$CCCC(17,P1)	ASSIGN BEACH CONTAINER LIFT	PE1212 134
644		QUEUE	P3		PE1212 76
645		ENTER	P3,MH\$CCCC(18,P1)	CAPTURE BEACH CONTAINER LIFT	PE1212 77
646		DEPART	P3		PE1212 78
647		QUEUE	TRKC		PE1212 79
648		ENTER	TRKC	CAPTURE TRUCK	PE0612 129
649		DEPART	TRKC		PE0612 74
650	*	MSAVEVALUE	FFF,1,P1,V\$AAO	SUBTRACT CARGO TYPE I LOADED ON TRUCK FROM CARGO TYPE I AT BEACH	PE0412 130
651		SPLIT	1,BAB		PE0612 75
					PE0612 76
					PE0523 8
					PE0612 77
					PE0413 5
					PE0413 6
					PE0412 132
					PE0412 1374

BLOCK NUMBER	*LOC	OPERATION	A,9,C,D,F,G,H,I,J	COMMENTS	PE0412	CARD NUMBER
652		ASSIGN	5,MH\$CCC(8,P1)	NUMBER OF CONTAINER LIFTS	133	1375
653		ASSIGN	6,MH\$CCC(9,P1)	NUMBER OF CONTAINERS / HOUR	134	1376
654		ADVANCE	V\$AAD	UNLOAD LIGHTER, LOAD CONTAINERS ON TRUCK	135	1377
655		LEAVE	P3,MH\$CCC(18,P1)	FPEE BEACH CONTAINER LIFT	136	1378
656		TEST F	BV\$LSACQ,1,BAG	TEST IF LSA IS COMPLETE AND IF CARGO IS TYPE 4, 6, 7, OR 9	139	1379
657		TRANSFER	,BAM		140	1380
658	RAG	TEST F	BV\$ASPCQ,1,BAH	TEST IF ASP IS COMPLETE AND IF CARGO IS TYPE 5 OR 6	101	1381
659		TRANSFER	,BAP		102	1382
660	BAPEL	TRANSFER	SBR,X\$WAIT,13PH		103	1383
661		TRANSFER	,BAB		104	1384
					38	1385
					39	1386
					105	1387
					106	1388
					107	1389
662	BAH	ASSIGN	5,MH\$CCC(14,12)	DISTANCE FROM BEACH TO BSA	25	1390
663		ASSIGN	6,MH\$CCC(11,P1)	SPEED OF TRUCK	26	1391
664		ADVANCE	V\$AAG	MOVE TO BSA	27	1392
665		ASSIGN	3,MH\$CCC(12,P1)	ASSIGN RSA CONTAINER LIFT	109	1393
666		QUEUE			78	1394
667		ENTER	P3,MH\$CCC(13,P1)	CAPTURE BSA CONTAINER LIFT	110	1395
668		DEPART	P3		79	1396
669		ASSIGN	5,MH\$CCC(13,P1)	NUMBER OF CONTAINER LIFTS	111	1397
670		ASSIGN	6,MH\$CCC(14,P1)	NUMBER OF CONTAINERS / HOUR	112	1398
671		ADVANCE	V\$AAD	UNLOAD TRUCK	113	1399
672		LEAVE	P3,MH\$CCC(13,P1)	FREE BSA CONTAINER LIFT	114	1400
673		SPLIT	1,BAJ		115	1401
674		ASSIGN	5,MH\$CCC(14,12)	DISTANCE FROM BEACH TO BSA	28	1402
675		ASSIGN	6,MH\$CCC(15,P1)	SPEED OF TRUCK	29	1403
676		ADVANCE	V\$AAG	TRUCK RETURNS TO BEACH	30	1404
677		LEAVE	TRCK	FREE TRUCK	9	1405
678		TERMINATE			110	1406
679	RAJ	TEST F	BV\$CNUNS,1,BAK	TEST IF CONTAINER IS NOT TO BE UNSTUFFED	119	1407
680		MSAVEVALUE	EEE,1,P1,V\$AAG,H	COMPUTE NUMBER OF CONTAINERS OF THIS TYPE DELIVERED	120	1408
681		MSAVEVALUE	EEE,3,P1,V\$AAP,H	COMPUTE NUMBER OF CONTAINERS OF THIS TYPE DELIVERED TO BSA	121	1409
682		TERMINATE			4	1411
683		ASSIGN	3,MH\$CCC(16,P1)	ASSIGN BSA UNSTUFFING EQUIPMENT	5	1412
684		QUEUE	P3		123	1413
685		ENTER	P3,MH\$CCC(17,P1)	CAPTURE BSA UNSTUFFING EQUIPMENT	124	1414
686		DEPART	P3		80	1415
687		ASSIGN	5,MH\$CCC(17,P1)	NUMBER OF UNSTUFFING EQUIPMENT	125	1416
688		ASSIGN	6,MH\$CCC(18,P1)	NUMBER OF CONTAINERS / HOUR	81	1417
689		ADVANCE	V\$AAD	UNSTUFF CONTAINER	126	1418
690		LEAVE	P3,MH\$CCC(17,P1)	FREE BSA UNSTUFFING EQUIPMENT	127	1419
691		SPLIT	1,BAL		128	1420
692		ASSIGN	3,MH\$CCC(19,P1)	ASSIGN BSA FORKLIFT	129	1421
693		QUEUE	P3		130	1422
694		ENTER	P3,MH\$CCC(20,P1)	CAPTURE BSA FORKLIFT	131	1423
695		DEPART	P3		82	1424
696		ASSIGN	5,MH\$CCC(20,P1)	NUMBER OF BSA FORKLIFTS	132	1425
697		ASSIGN	6,MH\$CCC(21,P1)	NUMBER OF PALLIFTS / HOUR	83	1426
698		ADVANCE	V\$AAF	MOVE BREAK SULK AND STORE	133	1427
					19	1428
					20	1429

BLOCK NUMBER	*LOC	OPERATION	A,B,C,D,E,F,G,H,I,J	COMMENTS	PE1212	CARD NUMBER
699		LEAVE	P3,MHSCCC(20,P1)	FREE BSA FORKLIFT	136	1430
700	*	MSAVEVALUE	EE,1,P1,V\$AAC,H	COMPUTE NUMBER CF CONTAINERS OF THIS TYPE DELIVERED	PE1212	1431
701	*	MSAVEVALUE	EE,3,P1,V\$AAP,H	COMPUTE NUMBER OF CONTAINERS OF THIS TYPE DELIVERED TO BSA	PE1212	1432
702		TERMINATE			PE0510	1433
703		ASSIGN	3,MHSCCC(22,P1)	ASSIGN BSA CONTAINER LIFT	PE0510	1434
704		ENTER	P3,MHSCCC(23,P1)	CAPTURE PSA CONTAINER LIFT	PE1212	1435
705		DEPART	P3,MHSCCC(23,P1)	CAPTURE PSA CONTAINER LIFT	PE1212	1436
706		ASSIGN	5,MHSCCC(23,P1)	NUMBER OF BSA CONTAINER LIFTS	PE0612	1437
707		ASSIGN	6,MHSCCC(24,P1)	NUMBER OF CONTAINERS / HOUR	PE1212	1438
708		ADVANCE	V\$AAD	MOVE EMPTY CONTAINERS TO SHORE	PE1212	1439
709		LEAVE	P3,MHSCCC(23,P1)	FREE CONTAINER LIFT	PE1212	1440
710		SAVEVALUE	FMCON,V\$AAJ,H	COMPUTE NUMBER OF EMPTY CONTAINERS RETURNED	PE1212	1441
711	*	TERMINATE			PE0115	1442
712	*	DELIVER	CAPCON TO LSA		PE1212	1443
713		ASSIGN	5,MHSCCC(14,11)	DISTANCE FROM REACH TO LSA	PE1212	1444
714		ASSIGN	6,MHSCCC(49,P1)	SPEED OF TRUCK	PE1212	1445
715		ADVANCE	V\$AAG	MOVE TO LSA	PE1212	1446
716		ASSIGN	3,MHSCCC(25,P1)	ASSIGN LSA CONTAINER LIFT	PE1212	1447
717		ENTER	P3,MHSCCC(26,P1)	CAPTURE LSA CONTAINER LIFT	PE1212	1448
718		DEPART	P3,MHSCCC(26,P1)	CAPTURE LSA CONTAINER LIFT	PE1212	1449
719		ASSIGN	5,MHSCCC(25,P1)	NUMBER OF LSA CONTAINER LIFTS	PE0216	1450
720		ASSIGN	6,MHSCCC(27,P1)	NUMBER OF CONTAINERS / HOUR	PE0216	1451
721		ADVANCE	V\$AAD	UNLOAD CONTAINER FROM TRUCK	PE0216	1452
722		TEST	F	UNSTUFFED	PE0216	1453
723	*	ADVANCE	MHSCCC(28,P1)	STORE CONTAINER	PE0612	1454
724		MSAVEVALUE	EE,1,P1,V\$AAC,H	COMPUTE NUMBER OF CONTAINERS OF THIS TYPE DELIVERED	PE1212	1455
725	*	MSAVEVALUE	EE,4,P1,V\$AAO,H	COMPUTE NUMBER OF CONTAINERS OF THIS TYPE DELIVERED TO LSA	PE1212	1456
726		LEAVE	P3,MHSCCC(26,P1)	FREE LSA CONTAINER LIFT	PE1212	1457
727		ASSIGN	5,MHSCCC(14,11)	DISTANCE FROM REACH TO LSA	PE1212	1458
728		ASSIGN	6,MHSCCC(29,P1)	SPEED OF TRUCK	PE1212	1459
729		ADVANCE	V\$AAG	TRUCK RETURNS TO REACH	PE1212	1460
730		LEAVE	TRKC	FREE TRUCK	PE1212	1461
731		TERMINATE			PE1212	1462
732		LEAVE	P3,MHSCCC(26,P1)	FREE LSA CONTAINER LIFT	PE1212	1463
733		ASSIGN	3,MHSCCC(30,P1)	ASSIGN LSA UNSTUFFING EQUIPMENT	PE1212	1464
734		ENTER	P3,MHSCCC(31,P1)	CAPTURE LSA UNSTUFFING EQUIPMENT	PE0418	1465
735		DEPART	P3,MHSCCC(31,P1)	CAPTURE LSA UNSTUFFING EQUIPMENT	PE0418	1466
736		ASSIGN	5,MHSCCC(31,P1)	NUMBER OF LSA UNSTUFFING EQUIPMENT	PE1212	1467
737		ASSIGN	6,MHSCCC(32,P1)	NUMBER OF CONTAINERS / HOUR	PE1212	1468
738		ADVANCE	V\$AAD	UNSTUFF CONTAINER	PE1212	1469
739		LEAVE	P3,MHSCCC(31,P1)	FREE LSA UNSTUFFING EQUIPMENT	PE1212	1470
740		SPLIT	1,RAD		PE1212	1471
741		ASSIGN	3,MHSCCC(33,P1)	ASSIGN LSA FORKLIFT	PE1212	1472
742		ENTER	P3,MHSCCC(33,P1)	ASSIGN LSA FORKLIFT	PE1212	1473
743		DEPART	P3,MHSCCC(33,P1)	ASSIGN LSA FORKLIFT	PE1212	1474
744		TERMINATE			PE0612	1475

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BLOCK NUMBER	*LOC	OPERATION	A,B,C,D,E,F,G,H,I,J	COMMENTS	CAQD NUMBER
745		ENTER	P3,MH\$CCC(34,P1)	CAPTURE LSA FORKLIFT	175
746		DEPART	P3		1485
747		ASSIGN	5,MH\$CCC(34,P1)	NUMBER OF LSA FORKLIFTS	91
748		ASSIGN	6,MH\$CCC(35,P1)	NUMBER OF PALLETS / HOUR	1486
749		ADVANCE	V\$AAF	MOVE TO DUMP AND STORE	1487
750		LEAVE	P3,MH\$CCC(34,P1)	FREE LSA FORKLIFT	21
751	*	MSAVEVALUE	EEF,1,P1,V\$AAC,H	COMPUTE NUMBER OF CONTAINERS OF THIS TYPE DELIVERED	1488
752	*	MSAVEVALUE	EEF,4,P1,V\$AAQ,H	COMPUTE NUMBER OF CONTAINERS OF THIS TYPE DELIVERED TO LSA	22
753		TERMINATE			1489
754		ASSIGN	3,MH\$CCC(36,P1)	ASSIGN LSA CONTAINER LIFT	1490
755		QUEUE	P3		180
756		ENTER	P3,MH\$CCC(37,P1)	CAPTURE LSA CONTAINER LIFT	1491
757		DEPART	P3		1492
758		ASSIGN	5,MH\$CCC(37,P1)	NUMBER OF LSA CONTAINER LIFTS	12
759		ASSIGN	6,MH\$CCC(38,P1)	NUMBER OF CONTAINERS / HOUR	1493
760		ADVANCE	V\$AAD	LOAD CONTAINER ON TRUCK	13
761		LEAVE	P3,MH\$CCC(37,P1)	FREE LSA CONTAINER LIFT	1494
762		ASSIGN	5,MH\$CCC(31,12)	DISTANCE FROM LSA TO BSA	1495
763		ASSIGN	6,MH\$CCC(39,P1)	SPEED OF TRUCK	1496
764		ADVANCE	V\$AAG	MOVE TO PSA	1497
765		ASSIGN	3,MH\$CCC(40,P1)	ASSIGN PSA CONTAINER LIFT	1498
766		QUEUE	P3		1499
767		ENTER	P3,MH\$CCC(41,P1)	CAPTURE PSA CONTAINER LIFT	1500
768		DEPART	P3		1501
769		ASSIGN	5,MH\$CCC(41,P1)	NUMBER OF BSA CONTAINER LIFTS	1502
770		ASSIGN	6,MH\$CCC(42,P1)	NUMBER OF CONTAINERS / HOUR	1503
771		ADVANCE	V\$AAD	UNLOAD CONTAINER	9
772		LEAVE	P3,MH\$CCC(41,P1)	FREE BSA CONTAINER LIFT	35
773		LEAVE	TRKC	FREE TRUCK	36
774	*	SAVEVALUE	EMCON,V\$AAJ,H	COMPUTE NUMBER OF EMPTY CONTAINERS RETURNED	1504
775		TERMINATE			1505
776		ASSIGN	5,MH\$CCC(14,13)	DISTANCE FROM REACH TO ASP	1506
777		ASSIGN	6,MH\$CCC(49,P1)	SPEED OF TRUCK	1507
778		ADVANCE	V\$AAG	MOVE TO ASP	1508
779		ASSIGN	3,MH\$CCC(25,P1)	ASSIGN ASP CONTAINER LIFT	1509
780		QUEUE	P3		1510
781		ENTER	P3,MH\$CCC(26,P1)	CAPTURE ASP CONTAINER LIFT	1511
782		DEPART	P3		1512
783		ASSIGN	5,MH\$CCC(26,P1)	NUMBER OF ASP CONTAINER LIFTS	1513
784		ASSIGN	6,MH\$CCC(27,P1)	NUMBER OF CONTAINERS / HOUR	1514
785		ADVANCE	V\$AAD	UNLOAD CONTAINER FROM TRUCK	11
786	*	TEST	9V\$CNUNS,1,BAQ	TEST IF CONTAINER IS NOT TO BE UNSTUFFED	7
787		ADVANCE	MH\$CCC(28,P1)	STORE CONTAINER	8
788	*	MSAVEVALUE	EEF,1,P1,V\$AAC,H	COMPUTE NUMBER OF CONTAINERS OF THIS TYPE DELIVERED	1515
789	*	MSAVEVALUE	EEF,4,P1,V\$AAQ,H	COMPUTE NUMBER OF CONTAINERS OF THIS TYPE DELIVERED TO ASP	1516
790		LEAVE	P3,MH\$CCC(26,P1)	FREE ASP CONTAINER LIFT	1517

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PLUCK NUMBER	*LOC	OPERATION	A,B,C,D,F,G,H,I,J	COMMENTS	CARD NUMBER
791		ASSIGN	5,MH\$CCC(14,13)	DISTANCE FROM BEACH TO ASP	PE0216 14
792		ASSIGN	6,MH\$CCC(29,P1)	SPEED OF TRUCK	PE0216 15
793		ADVANCE	V\$AAG	TRUCK RETURNS TO BEACH	PE0216 16
794		LEAVE	TRKC	FREE TRUCK	PE0523 12
795		TERMINATE			PE1212 214
796	RAO	LEAVE	P3,MH\$CCC(26,P1)	FREE ASP CONTAINER LIFT	PE1212 215
797		ASSIGN	3,MH\$CCC(30,P1)	ASSIGN ASP UNSTUFFING EQUIPMENT	PE1212 216
798		QUEUE	P3		PE0612 98
799		ENTER	P3,MH\$CCC(31,P1)	CAPTURE ASP UNSTUFFING EQUIPMENT	PE1212 217
800		DEPART	P3		PE0612 99
801		ASSIGN	5,MH\$CCC(31,P1)	NUMBER OF ASP UNSTUFFING EQUIPMENT	PE1212 218
802		ASSIGN	6,MH\$CCC(32,P1)	NUMBER OF CONTAINERS / HOUR	PE1212 219
803		ADVANCE	V\$AAD	UNSTUFF CONTAINER	PE1212 220
804		LEAVE	P3,MH\$CCC(31,P1)	FREE ASP UNSTUFFING EQUIPMENT	PE1212 221
805		SPLIT	1,BAR		PE1212 222
806		ASSIGN	3,MH\$CCC(33,P1)	ASSIGN ASP FORKLIFT	PE1212 223
807		QUEUE	P3		PE0612 100
808		ENTER	P3,MH\$CCC(34,P1)	CAPTURE ASP FORKLIFT	PE1212 224
809		DEPART	P3		PE0612 101
810		ASSIGN	5,MH\$CCC(34,P1)	NUMBER OF ASP FORKLIFTS	PE1212 225
811		ASSIGN	6,MH\$CCC(35,P1)	NUMBER OF PALLETS / HOUR	PE1212 225
812		ADVANCE	V\$AAF	MOVE TO DUMP AND STORE	PE0103 23
813		LEAVE	P3,MH\$CCC(34,P1)	FREE ASP FORKLIFT	PE0103 24
814		MSAVEVALUE	EEE,1,P1,V\$AAC,H	COMPUTE NUMBER OF CONTAINERS OF THIS TYPE DELIVERED	PE1212 228
815		MSAVEVALUE	EEE,4,P1,V\$AAQ,H	COMPUTE NUMBER OF CONTAINERS OF THIS TYPE DELIVERED TO ASP	PE1212 229
816		TERMINATE			PE1212 230
817		ASSIGN	3,MH\$CCC(36,P1)	ASSIGN ASP CONTAINER LIFT	PE0418 16
818		QUEUE	P3		PE0418 17
819		ENTER	P3,MH\$CCC(37,P1)	CAPTURE ASP CONTAINER LIFT	PE1212 231
820		DEPART	P3		PE1212 232
821		ASSIGN	5,MH\$CCC(37,P1)	NUMBER OF ASP CONTAINER LIFTS	PE0612 102
822		ASSIGN	6,MH\$CCC(38,P1)	NUMBER OF CONTAINERS / HOUR	PE1212 233
823		ADVANCE	V\$AAD	LOAD CONTAINER ON TRUCK	PE0612 103
824		LEAVE	P3,MH\$CCC(37,P1)	FREE ASP CONTAINER LIFT	PE1212 234
825		ASSIGN	5,MH\$CCC(13,13)	DISTANCE FROM ASP TO BSA	PE1212 235
826		ASSIGN	6,MH\$CCC(39,P1)	SPEED OF TRUCK	PE1212 236
827		ADVANCE	V\$AAG	MOVE TO BSA	PE1212 237
828		ASSIGN	3,MH\$CCC(40,P1)	ASSIGN ASA CONTAINER LIFT	PE0216 17
829		QUEUE	P3		PE0216 18
830		ENTER	P3,MH\$CCC(41,P1)	CAPTURE PSA CONTAINER LIFT	PE0216 19
831		DEPART	P3		PE1212 239
832		ASSIGN	5,MH\$CCC(41,P1)	NUMBER OF BSA CONTAINER LIFTS	PE0612 104
833		ASSIGN	6,MH\$CCC(42,P1)	NUMBER OF CONTAINERS / HOUR	PE1212 240
834		ADVANCE	V\$AAD	UNLOAD CONTAINER	PE0612 105
835		LEAVE	P3,MH\$CCC(41,P1)	FREE BSA CONTAINER LIFT	PE1212 241
836		LEAVE	TRKC	FREE TRUCK	PE1212 242
837		MSAVEVALUE	EMCON,V\$AAJ,H	COMPUTE NUMBER OF EMPTY CONTAINERS RETURNED	PE1212 243
838		TERMINATE			PE0523 13
839		OUTSTZER CARGO DELIVERY			PE0105 9
840		TEST F	P1,10,CAD	TEST FOR CARGO TYPE 10	PE0105 10
841		TEST F	P1,10,CAD	TEST FOR CARGO TYPE 10	PE1212 246
842		TEST F	P1,10,CAD	TEST FOR CARGO TYPE 10	PE0104 38
843		TEST F	P1,10,CAD	TEST FOR CARGO TYPE 10	PE0104 39
844		TEST F	P1,10,CAD	TEST FOR CARGO TYPE 10	PE0104 40
845		TEST F	P1,10,CAD	TEST FOR CARGO TYPE 10	PE0412 141

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CARD
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BLOCK NUMBER	*LOC	OPERATION	A,B,C,D,E,F,G,H,I,J	COMMENTS	PE0412	142	1595
940	*	ASSIGN	4,1	NUMBER OF TYPE 10 CARGO UNITS UNLOADED FROM LIGHTER AT ONE TIME	PE0412	143	1596
941	*	TEST GE	MX\$FF(1,10),1,CAPFL	TEST FOR CARGO TYPE 10 AT BEACH	PE0731	40	1597
942	*	MSAVEVALUE	FFF,1,P1,V\$A0D	SUBTRACT CARGO TYPE I THAT LEAVES BEACH FROM CARGO TYPE I AT BEACH	PE0412	146	1598
943	*	SPLIT	1,CAP		PE0413	147	1599
944	*	TEST F	N\$LSAN,7,CAC	TEST FOR LSA COMPLETION	PE0104	48	1600
945	*	ASSIGN	5,MH\$CCC(13,P1)	UNLOADING RATE	PE0110	11	1601
946	*	ADVANCE	V\$AAH	UNLOAD FROM LIGHTER	PE0104	50	1602
947	*	ASSIGN	5,MH\$CCC(14,11)	DISTANCE FROM BEACH TO LSA	PE0110	12	1603
948	*	ASSIGN	5,MH\$CCC(15,P1)	SPEED OF TYPE 10 CARGO	PE0110	13	1604
949	*	ADVANCE	V\$AAG	MOVE TO LSA	PE0104	53	1605
950	*	ASSIGN	4,1		PE0104	54	1606
951	*	MSAVEVALUE	EEE,1,P1,V\$A0C,H	COMPUTE NUMBER OF CARGO UNITS OF THIS TYPE DELIVERED	PE0104	55	1607
952	*	MSAVEVALUE	EEE,4,P1,V\$A0G,M	COMPUTE NUMBER OF CARGO UNITS OF THIS TYPE DELIVERED TO LSA	PE0104	56	1608
953	*	TERMINATE	S90,X\$WAIT,13PH		PE0731	42	1609
954	*	TRANSFER	CAP		PE0731	43	1610
955	*	ASSIGN	5,MH\$CCC(14,12)	DISTANCE FROM BEACH TO BSA	PE0110	14	1611
956	*	ASSIGN	5,MH\$CCC(15,P1)	SPEED OF TYPE 10 CARGO	PE0110	15	1612
957	*	ADVANCE	V\$AAG	MOVE TO BSA	PE0104	60	1613
958	*	ASSIGN	4,1		PE0105	11	1614
959	*	MSAVEVALUE	EEE,1,P1,V\$A0C,H	COMPUTE NUMBER OF CARGO UNITS OF THIS TYPE DELIVERED	PE0104	61	1615
960	*	TERMINATE	S90,X\$WAIT,13PH		PE0104	62	1616
961	*	TEST E	P1,11,CAP	TEST FOR TYPE 11 CARGO	PE0104	63	1617
962	*	ASSIGN	4,1	NUMBER OF TYPE 11 CARGO UNITS UNLOADED FROM LIGHTER AT ONE TIME	PE0412	148	1618
963	*	TEST GE	MX\$FF(1,11),1,CAPFL	TEST FOR CARGO TYPE 11 AT BEACH	PE0412	149	1619
964	*	MSAVEVALUE	FFF,1,P1,V\$A0D	SUBTRACT CARGO TYPE I THAT LEAVES BEACH FROM CARGO TYPE I AT BEACH	PE0731	44	1620
965	*	SPLIT	1,CAP		PE0412	153	1621
966	*	ASSIGN	3,MH\$CCC(16,P1)	ASSIGN TOWING EQUIPMENT	PE0413	154	1622
967	*	QUEUE	P3		PE0110	16	1623
968	*	ENTER	P3	CAPTURE TOWING EQUIPMENT	PE0104	66	1624
969	*	DEPART	P3		PE0612	107	1625
970	*	ASSIGN	5,MH\$CCC(17,P1)	UNLOADING RATE FOR TOWING EQUIPMENT	PE0110	17	1626
971	*	ADVANCE	V\$AAH	UNLOAD LIGHTER	PE0104	68	1627
972	*	TEST F	N\$LSAN,7,CAP	TEST FOR LSA COMPLETION	PE0104	69	1628
973	*	ASSIGN	5,MH\$CCC(14,11)	DISTANCE FROM BEACH TO LSA	PE0110	18	1629
974	*	ASSIGN	5,MH\$CCC(15,P1)	SPEED OF LOADED TOWING EQUIPMENT	PE0110	19	1630
975	*	ADVANCE	V\$AAG	MOVE TO LSA	PE0104	72	1631
976	*	SPLIT	1,CAP		PE0104	73	1632
977	*	MSAVEVALUE	EEE,1,P1,V\$A0C,H	COMPUTE NUMBER OF CARGO UNITS OF THIS TYPE DELIVERED	PE0104	75	1633
978	*	MSAVEVALUE	EEE,4,P1,V\$A0G,M	COMPUTE NUMBER OF CARGO UNITS OF THIS TYPE DELIVERED TO LSA	PE0410	20	1634
979	*	TERMINATE	S90,X\$WAIT,13PH		PE0410	21	1635
980	*	TRANSFER	CAP		PE0104	77	1636
981	*	ASSIGN	5,MH\$CCC(14,11)	DISTANCE FROM BEACH TO LSA	PE0731	46	1637
982	*	ASSIGN	5,MH\$CCC(15,P1)	SPEED OF LOADED TOWING EQUIPMENT	PE0731	47	1638
983	*	ASSIGN	5,MH\$CCC(16,P1)	DISTANCE FROM BEACH TO LSA	PE0110	20	1639

ALOCK NUMBER	*LOC	OPERATION	A,R,C,D,E,F,G,H,I,J	COMMENTS	CARD NUMBER
884		ASSIGN	6,MHSCCC(19,P1)	SPEED OF UNLOADED TOWING EQUIPMENT	21
885		ADVANCE	VSAAG	RETURN TOWING EQUIPMENT TO BEACH	80
886		LEAVE	P3	FREE TOWING EQUIPMENT	81
887		TERMINATE			82
889	CAF	ASSIGN	5,MHSCCC(14,12)	DISTANCE FROM BEACH TO BSA	22
890		ASSIGN	6,MHSCCC(18,P1)	SPEED OF LOADED TOWING EQUIPMENT	23
891		ADVANCE	VSAAG	MOVE TO BSA	24
892		SPLIT	1,CAG		85
893	*	MSAVEVALUE	EFE,1,P1,V\$AAG,H	COMPUTE NUMBER OF CARGO UNITS OF THIS TYPE DELIVERED	86
894		TERMINATE			87
895	CAG	ASSIGN	5,MHSCCC(14,12)	DISTANCE FROM BEACH TO BSA	88
896		ASSIGN	6,MHSCCC(19,P1)	SPEED OF UNLOADED TOWING EQUIPMENT	89
897		ADVANCE	VSAAG	RETURN TOWING EQUIPMENT TO BEACH	90
898		LEAVE	P3	FREE TOWING EQUIPMENT	91
899	CAM	TERMINATE			92
900	*	ASSIGN	4,MHSCCC(23,P1)	NUMBER OF TYPE I CARGO UNITS ON TRUCK	93
901		TEST GF	MX\$FFF(1,P1),1,CAGFL	TEST FOR CARGO TYPE P1 AT BEACH	94
902		ASSIGN	3,MHSCCC(20,P1)	ASSIGN CRANE	95
903		QUEUE	P3		96
904		ENTER	P3,MHSCCC(21,P1)	CAPTURE CRANE	97
905		DEPART	P3		98
906		QUEUE	FBTRK		99
907		ENTER	FBTRK	CAPTURE TRUCK	100
908		DEPART	FBTRK		101
909	*	MSAVEVALUE	FFF,1,P1,V\$AAG	SUBTRACT CARGO TYPE I LOADED ON TRUCK FROM CARGO TYPE I AT BEACH	102
910		SPLIT	1,CAG		103
911		ASSIGN	5,MHSCCC(21,P1)	NUMBER OF CRANES	104
912		ASSIGN	6,MHSCCC(22,P1)	NUMBER OF CARGO UNITS / HOUR	105
913		ADVANCE	VSAAG	UNLOAD LIGHTER AND LOAD TRUCK	106
914		LEAVE	P3,MHSCCC(21,P1)	FREE CRANE	107
915		TEST E	P1,13-CAN	TEST FOR TYPE 13 CARGO	108
916		TEST F	NLSAN,7,CAN	TEST FOR LSA COMPLETION	109
917		ASSIGN	5,MHSCCC(14,11)	DISTANCE FROM BEACH TO LSA	110
918		ASSIGN	6,MHSCCC(24,P1)	SPEED OF LOADED TRUCK	111
919		ADVANCE	VSAAG	MOVE TO LSA	112
920		ASSIGN	3,MHSCCC(25,P1)	ASSIGN CRANE	113
921		QUEUE	P3		114
922		ENTER	P3,MHSCCC(26,P1)	CAPTURE CRANE	115
923		DEPART	P3		116
924		ASSIGN	5,MHSCCC(26,P1)	NUMBER OF CRANES	117
925		ASSIGN	6,MHSCCC(27,P1)	NUMBER OF CARGO UNITS / HOUR	118
926		ADVANCE	VSAAG	UNLOAD TRUCK	119
927		LEAVE	P3,MHSCCC(26,P1)	FREE CRANE	120
928	*	MSAVEVALUE	EFE,1,P1,V\$AAG,H	COMPUTE NUMBER OF CARGO UNITS OF THIS TYPE DELIVERED	121
929		MSAVEVALUE	EFE,4,P1,V\$AAG,H	COMPUTE NUMBER OF CARGO UNITS OF THIS TYPE DELIVERED TO LSA	122
930		ASSIGN	5,MHSCCC(14,11)	DISTANCE FROM BEACH TO LSA	123
931		ASSIGN	6,MHSCCC(28,P1)	SPEED OF UNLOADED TRUCK	124
932		ADVANCE	VSAAG	TRUCK RETURNS TO BEACH	125
		LEAVE	FBTRK	FREE TRUCK	126

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DAVID W TAYLOR NAVAL SHIP RESEARCH AND DEVELOPMENT CE--ETC F/6 15/5
AMPHIBIOUS LOGISTICS SUPPORT ASHORE (ALSA) (A COMPUTER SIMULATI--ETC(U)
SEP 80 P E FRIEDENBERG

UNCLASSIFIED

DTNSRDC-80/110

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2 of 2

AD-A089 131



END
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N S R D C GPSS V/6000

CRM GPSS V/6000 VER. 1.2 PSR 412

04/25/79 14.41.40.

BLOCK NUMBER	*LOC	OPERATION	A,B,C,D,E,F,G,H,I,J	COMMENTS	CARD NUMBER
933		TERMINATE			PE0104 133
934	CAOFL	TRANSFER	SBR,XWAIT,13PH		PE0731 50
935		TRANSFER	,CAQ		PE0731 51
936	CAN	ASSIGN	5,MHSCCG(14,12)	DISTANCE FROM BEACH TO BSA	PE0110 43
937		ASSIGN	6,MHSCCG(24,P1)	SPEED OF LOADED TRUCK	PE0110 44
938		ADVANCE	V8AAG	MOVE TO BSA	PE0104 136
939		ASSIGN	3,MHSCCG(29,P1)	ASSIGN CRANE	PE0110 45
940		QUEUE	P3		PE0612 114
941		ENTER	P3,MHSCCG(30,P1)	CAPTURE CRANE	PE0110 46
942		DEPART	P3		PE0612 115
943		ASSIGN	5,MHSCCG(30,P1)	NUMBER OF CRANES	PE0110 47
944		ASSIGN	6,MHSCCG(31,P1)	NUMBER OF CARGO UNITS / HOUR	PE0113 48
945		ADVANCE	V8AAG	UNLOAD TRUCK	PE0104 141
946		LEAVE	P3,MHSCCG(30,P1)	FREE CRANE	PE0113 49
947	*	MSAVEVALUE	EEE,1,P1,V8AAG,H	COMPUTE NUMBER OF CARGO UNITS OF THIS TYPE DELIVERED	PE0104 143
948		ASSIGN	5,MHSCCG(14,12)	DISTANCE FROM BEACH TO 9SA	PE0110 50
949		ASSIGN	6,MHSCCG(26,P1)	SPEED OF UNLOADED TRUCK	PE0110 51
950		ADVANCE	V8AAG	TRUCK RETURNS TO BEACH	PE0104 147
951		LEAVE	FBTRK	FREE TRUCK	PE0104 148
952	CAN	TERMINATE			PE0104 149
953	*	MODEL SEGMENT	7	STORE CARGO DELIVERY TOTALS	PE0117 10
954		GENERATE	720,*,*1		PE0117 11
955	DAA	ASSIGN	1,XHSPRNTA	ASSIGN ROW OF MATRIX	PE0117 12
956		ASSIGN	2,17	NUMBER OF COLUMNS IN MATRIX	PE0117 13
957	DAB	MARK	3	COPY CLOCK INTO PARAMETER 3	PE0117 14
958		MSAVEVALUE	EEE,P1,P2,MHSEEE(1,P2),H	STORE NUMBER OF CARGO UNITS OF THIS TYPE DELIVERED	PE0117 15
959		LOOP	2,DAB		PE0117 16
960		MSAVEVALUE	EEE,P1,20,V8AAK,H	STORE TIME	PE0117 17
961		SAVEVALUE	PRNTA,V8AAL,H	INCREASE ROW NUMBER OF MATRIX BY 1	PE0117 18
962		TEST LE	XHSPRNTA,100,DAC	TEST IF SIZE OF MATRIX IS EXCEEDED	PE0117 19
963		ADVANCE	720	DELAY TIME	PE0117 20
964	DAC	TRANSFER	,DAA		PE0117 21
965	*	MODEL SEGMENT	8	PUT VALUES IN CARGO DELIVERY MATRICES	PE0117 22
966		GENERATE	*,*1		PE0117 23
967		ADVANCE	144J	DELAY TIME	PE0117 24
968	DAD	MARK	3	COPY CLOCK INTO PARAMETER 3	PE0117 25
969		MSAVEVALUE	GGG,XHSPRNTA,1,V8AAK,H	TIME IN HOURS	PE0506 10
970		MSAVEVALUE	GGG,XHSPRNTA,2,MHSEEE(3,1),H	TYPE 1 CARGO DELIVERED TO BSA	PE0506 11
971	*	MSAVEVALUE	GGG,XHSPRNTA,3,MHSEEE(3,2),H	TYPE 2 CARGO DELIVERED TO 9SA	PE0506 12
972	*	MSAVEVALUE	GGG,XHSPRNTA,4,MHSEEE(3,3),H	TYPE 3 CARGO DELIVERED TO BSA	PE0506 13
973	*	MSAVEVALUE	GGG,XHSPRNTA,5,V8AAV,H	CARGO TYPES 4+5+6+7+8+9 DELIVERED TO BSA	PE0506 14
974	*	MSAVEVALUE	MHH,XHSPRNTA,1,V8AAK,H	TIME IN HOURS	PE0510 1
975		MSAVEVALUE	MHH,XHSPRNTA,2,MHSEEE(4,1),H	TYPE 1 CARGO DELIVERED TO LSA	PE0510 2

CARD
NUMBER

COMMENTS

BLOCK
NUMBER

OPERATION A,9,C,D,E,F,G,H,I,J

MSAVEVALUE HHM,XH\$XROM,3,V\$AAR,H CARGO TYPES 4+7 DELIVERED
TO LSAMSAVEVALUE HHM,XH\$XROM,4,MH\$EEEE(4,10),H TYPE 10 CARGO
DELIVERED TO LSAMSAVEVALUE HHM,XH\$XROM,5,MH\$EEEE(4,11),H TYPE 11 CARGO
DELIVERED TO LSAMSAVEVALUE HHM,XH\$XROM,6,MH\$EEEE(4,13),H TYPE 13 CARGO
DELIVERED TO LSAMSAVEVALUE KKK,XH\$XROM,1,V\$AAK,H TIME IN HOURS
MSAVEVALUE KKK,XH\$XROM,2,MH\$EEEE(4,2),H TYPE 2 CARGO DELIVERED
TO LSAMSAVEVALUE KKK,XH\$XROM,3,V\$AAS,H CARGO TYPES 6+9 DELIVERED
TO LSAMSAVEVALUE LLL,XH\$XROM,1,V\$AAK,H TIME IN HOURS
MSAVEVALUE LLL,XH\$XROM,2,MH\$EEEE(4,3),H TYPE 3 CARGO DELIVERED
TO ASPMSAVEVALUE LLL,XH\$XROM,3,V\$AAT,H CARGO TYPES 5+8 DELIVERED
TO ASPSAVEVALUE XROM,V\$AAU,H INCREASE ROW NUMBER OF MATRICES BY 1
TEST LF XH\$XROM,50,DAE TEST IF SIZE OF MATRICES IS EXCEEDEDADVANCE 1440 DELAY TIME
TRANSFER ,DAD
TERMINATE

LAST MODEL SEGMENT (TIMER SEGMENT)

GENERATE X\$TIMER TIMER ARRIVES AT TIME TIMER

STORE COMPLETION TIMES (IN DAYS) IN FLOATING POINT SAVEVALUES

SAVEVALUE B\$PDS,ML\$000(1,1),XL BSA ROADS

SAVEVALUE B\$DP1,ML\$000(1,2),XL BSA DUMP 1

SAVEVALUE B\$DP2,ML\$000(1,3),XL BSA DUMP 2

SAVEVALUE B\$DP3,ML\$000(1,4),XL BSA DUMP 3

SAVEVALUE B\$DP4,ML\$000(1,5),XL BSA DUMP 4

SAVEVALUE M\$TR1,ML\$000(2,1),XL MSP TEMPORARY ROUTE 1

SAVEVALUE M\$TR2,ML\$000(2,2),XL MSP TEMPORARY ROUTE 2

SAVEVALUE M\$TR3,ML\$000(2,3),XL MSP TEMPORARY ROUTE 3

SAVEVALUE M\$TR4,ML\$000(2,4),XL MSP TEMPORARY ROUTE 4

SAVEVALUE M\$PR1,ML\$000(3,1),XL MSR PERMANENT ROUTE 1

SAVEVALUE M\$PR2,ML\$000(3,2),XL MSR PERMANENT ROUTE 2

SAVEVALUE M\$PR3,ML\$000(3,3),XL MSR PERMANENT ROUTE 3

SAVEVALUE M\$PR4,ML\$000(3,4),XL MSR PERMANENT ROUTE 4

SAVEVALUE L\$SA1,ML\$000(4,1),XL LSA STORAGE AREA 1

SAVEVALUE L\$SA2,ML\$000(4,2),XL LSA STORAGE AREA 2

SAVEVALUE L\$SA3,ML\$000(4,3),XL LSA STORAGE AREA 3

SAVEVALUE L\$SA4,ML\$000(4,4),XL LSA STORAGE AREA 4

SAVEVALUE L\$SA5,ML\$000(4,5),XL LSA STORAGE AREA 5

SAVEVALUE L\$SA6,ML\$000(4,6),XL LSA STORAGE AREA 6

SAVEVALUE L\$SA7,ML\$000(4,7),XL LSA STORAGE AREA 7

SAVEVALUE L\$SA8,ML\$000(4,8),XL LSA STORAGE AREA 8

SAVEVALUE L\$SA9,ML\$000(4,9),XL LSA STORAGE AREA 9

SAVEVALUE L\$SA10,ML\$000(4,10),XL LSA STORAGE AREA 10

SAVEVALUE L\$SA11,ML\$000(4,11),XL LSA STORAGE AREA 11

SAVEVALUE L\$SA12,ML\$000(4,12),XL LSA STORAGE AREA 12

SAVEVALUE L\$SA13,ML\$000(4,13),XL LSA STORAGE AREA 13

SAVEVALUE L\$SA14,ML\$000(4,14),XL LSA STORAGE AREA 14

SAVEVALUE L\$SA15,ML\$000(4,15),XL LSA STORAGE AREA 15

SAVEVALUE L\$SA16,ML\$000(4,16),XL LSA STORAGE AREA 16

SAVEVALUE L\$SA17,ML\$000(4,17),XL LSA STORAGE AREA 17

SAVEVALUE L\$SA18,ML\$000(4,18),XL LSA STORAGE AREA 18

SAVEVALUE L\$SA19,ML\$000(4,19),XL LSA STORAGE AREA 19

SAVEVALUE L\$SA20,ML\$000(4,20),XL LSA STORAGE AREA 20

SAVEVALUE L\$SA21,ML\$000(4,21),XL LSA STORAGE AREA 21

SAVEVALUE L\$SA22,ML\$000(4,22),XL LSA STORAGE AREA 22

SAVEVALUE L\$SA23,ML\$000(4,23),XL LSA STORAGE AREA 23

SAVEVALUE L\$SA24,ML\$000(4,24),XL LSA STORAGE AREA 24

SAVEVALUE L\$SA25,ML\$000(4,25),XL LSA STORAGE AREA 25

SAVEVALUE L\$SA26,ML\$000(4,26),XL LSA STORAGE AREA 26

SAVEVALUE L\$SA27,ML\$000(4,27),XL LSA STORAGE AREA 27

SAVEVALUE L\$SA28,ML\$000(4,28),XL LSA STORAGE AREA 28

SAVEVALUE L\$SA29,ML\$000(4,29),XL LSA STORAGE AREA 29

SAVEVALUE L\$SA30,ML\$000(4,30),XL LSA STORAGE AREA 30

SAVEVALUE L\$SA31,ML\$000(4,31),XL LSA STORAGE AREA 31

SAVEVALUE L\$SA32,ML\$000(4,32),XL LSA STORAGE AREA 32

SAVEVALUE L\$SA33,ML\$000(4,33),XL LSA STORAGE AREA 33

SAVEVALUE L\$SA34,ML\$000(4,34),XL LSA STORAGE AREA 34

SAVEVALUE L\$SA35,ML\$000(4,35),XL LSA STORAGE AREA 35

SAVEVALUE L\$SA36,ML\$000(4,36),XL LSA STORAGE AREA 36

SAVEVALUE L\$SA37,ML\$000(4,37),XL LSA STORAGE AREA 37

SAVEVALUE L\$SA38,ML\$000(4,38),XL LSA STORAGE AREA 38

SAVEVALUE L\$SA39,ML\$000(4,39),XL LSA STORAGE AREA 39

SAVEVALUE L\$SA40,ML\$000(4,40),XL LSA STORAGE AREA 40

SAVEVALUE L\$SA41,ML\$000(4,41),XL LSA STORAGE AREA 41

SAVEVALUE L\$SA42,ML\$000(4,42),XL LSA STORAGE AREA 42

SAVEVALUE L\$SA43,ML\$000(4,43),XL LSA STORAGE AREA 43

SAVEVALUE L\$SA44,ML\$000(4,44),XL LSA STORAGE AREA 44

SAVEVALUE L\$SA45,ML\$000(4,45),XL LSA STORAGE AREA 45

SAVEVALUE L\$SA46,ML\$000(4,46),XL LSA STORAGE AREA 46

SAVEVALUE L\$SA47,ML\$000(4,47),XL LSA STORAGE AREA 47

SAVEVALUE L\$SA48,ML\$000(4,48),XL LSA STORAGE AREA 48

SAVEVALUE L\$SA49,ML\$000(4,49),XL LSA STORAGE AREA 49

SAVEVALUE L\$SA50,ML\$000(4,50),XL LSA STORAGE AREA 50

SAVEVALUE L\$SA51,ML\$000(4,51),XL LSA STORAGE AREA 51

SAVEVALUE L\$SA52,ML\$000(4,52),XL LSA STORAGE AREA 52

SAVEVALUE L\$SA53,ML\$000(4,53),XL LSA STORAGE AREA 53

SAVEVALUE L\$SA54,ML\$000(4,54),XL LSA STORAGE AREA 54

SAVEVALUE L\$SA55,ML\$000(4,55),XL LSA STORAGE AREA 55

SAVEVALUE L\$SA56,ML\$000(4,56),XL LSA STORAGE AREA 56

SAVEVALUE L\$SA57,ML\$000(4,57),XL LSA STORAGE AREA 57

SAVEVALUE L\$SA58,ML\$000(4,58),XL LSA STORAGE AREA 58

SAVEVALUE L\$SA59,ML\$000(4,59),XL LSA STORAGE AREA 59

SAVEVALUE L\$SA60,ML\$000(4,60),XL LSA STORAGE AREA 60

SAVEVALUE L\$SA61,ML\$000(4,61),XL LSA STORAGE AREA 61

SAVEVALUE L\$SA62,ML\$000(4,62),XL LSA STORAGE AREA 62

SAVEVALUE L\$SA63,ML\$000(4,63),XL LSA STORAGE AREA 63

SAVEVALUE L\$SA64,ML\$000(4,64),XL LSA STORAGE AREA 64

SAVEVALUE L\$SA65,ML\$000(4,65),XL LSA STORAGE AREA 65

SAVEVALUE L\$SA66,ML\$000(4,66),XL LSA STORAGE AREA 66

SAVEVALUE L\$SA67,ML\$000(4,67),XL LSA STORAGE AREA 67

SAVEVALUE L\$SA68,ML\$000(4,68),XL LSA STORAGE AREA 68

SAVEVALUE L\$SA69,ML\$000(4,69),XL LSA STORAGE AREA 69

SAVEVALUE L\$SA70,ML\$000(4,70),XL LSA STORAGE AREA 70

SAVEVALUE L\$SA71,ML\$000(4,71),XL LSA STORAGE AREA 71

SAVEVALUE L\$SA72,ML\$000(4,72),XL LSA STORAGE AREA 72

SAVEVALUE L\$SA73,ML\$000(4,73),XL LSA STORAGE AREA 73

SAVEVALUE L\$SA74,ML\$000(4,74),XL LSA STORAGE AREA 74

SAVEVALUE L\$SA75,ML\$000(4,75),XL LSA STORAGE AREA 75

SAVEVALUE L\$SA76,ML\$000(4,76),XL LSA STORAGE AREA 76

SAVEVALUE L\$SA77,ML\$000(4,77),XL LSA STORAGE AREA 77

SAVEVALUE L\$SA78,ML\$000(4,78),XL LSA STORAGE AREA 78

SAVEVALUE L\$SA79,ML\$000(4,79),XL LSA STORAGE AREA 79

SAVEVALUE L\$SA80,ML\$000(4,80),XL LSA STORAGE AREA 80

SAVEVALUE L\$SA81,ML\$000(4,81),XL LSA STORAGE AREA 81

SAVEVALUE L\$SA82,ML\$000(4,82),XL LSA STORAGE AREA 82

SAVEVALUE L\$SA83,ML\$000(4,83),XL LSA STORAGE AREA 83

SAVEVALUE L\$SA84,ML\$000(4,84),XL LSA STORAGE AREA 84

SAVEVALUE L\$SA85,ML\$000(4,85),XL LSA STORAGE AREA 85

SAVEVALUE L\$SA86,ML\$000(4,86),XL LSA STORAGE AREA 86

SAVEVALUE L\$SA87,ML\$000(4,87),XL LSA STORAGE AREA 87

SAVEVALUE L\$SA88,ML\$000(4,88),XL LSA STORAGE AREA 88

SAVEVALUE L\$SA89,ML\$000(4,89),XL LSA STORAGE AREA 89

SAVEVALUE L\$SA90,ML\$000(4,90),XL LSA STORAGE AREA 90

SAVEVALUE L\$SA91,ML\$000(4,91),XL LSA STORAGE AREA 91

SAVEVALUE L\$SA92,ML\$000(4,92),XL LSA STORAGE AREA 92

SAVEVALUE L\$SA93,ML\$000(4,93),XL LSA STORAGE AREA 93

SAVEVALUE L\$SA94,ML\$000(4,94),XL LSA STORAGE AREA 94

SAVEVALUE L\$SA95,ML\$000(4,95),XL LSA STORAGE AREA 95

SAVEVALUE L\$SA96,ML\$000(4,96),XL LSA STORAGE AREA 96

SAVEVALUE L\$SA97,ML\$000(4,97),XL LSA STORAGE AREA 97

SAVEVALUE L\$SA98,ML\$000(4,98),XL LSA STORAGE AREA 98

SAVEVALUE L\$SA99,ML\$000(4,99),XL LSA STORAGE AREA 99

SAVEVALUE L\$SA100,ML\$000(4,100),XL LSA STORAGE AREA 100

SAVEVALUE L\$SA101,ML\$000(4,101),XL LSA STORAGE AREA 101

SAVEVALUE L\$SA102,ML\$000(4,102),XL LSA STORAGE AREA 102

SAVEVALUE L\$SA103,ML\$000(4,103),XL LSA STORAGE AREA 103

SAVEVALUE L\$SA104,ML\$000(4,104),XL LSA STORAGE AREA 104

SAVEVALUE L\$SA105,ML\$000(4,105),XL LSA STORAGE AREA 105

SAVEVALUE L\$SA106,ML\$000(4,106),XL LSA STORAGE AREA 106

SAVEVALUE L\$SA107,ML\$000(4,107),XL LSA STORAGE AREA 107

SAVEVALUE L\$SA108,ML\$000(4,108),XL LSA STORAGE AREA 108

SAVEVALUE L\$SA109,ML\$000(4,109),XL LSA STORAGE AREA 109

SAVEVALUE L\$SA110,ML\$000(4,110),XL LSA STORAGE AREA 110

SAVEVALUE L\$SA111,ML\$000(4,111),XL LSA STORAGE AREA 111

SAVEVALUE L\$SA112,ML\$000(4,112),XL LSA STORAGE AREA 112

SAVEVALUE L\$SA113,ML\$000(4,113),XL LSA STORAGE AREA 113

SAVEVALUE L\$SA114,ML\$000(4,114),XL LSA STORAGE AREA 114

SAVEVALUE L\$SA115,ML\$000(4,115),XL LSA STORAGE AREA 115

SAVEVALUE L\$SA116,ML\$000(4,116),XL LSA STORAGE AREA 116

SAVEVALUE L\$SA117,ML\$000(4,117),XL LSA STORAGE AREA 117

SAVEVALUE L\$SA118,ML\$000(4,118),XL LSA STORAGE AREA 118

SAVEVALUE L\$SA119,ML\$000(4,119),XL LSA STORAGE AREA 119

SAVEVALUE L\$SA120,ML\$000(4,120),XL LSA STORAGE AREA 120

SAVEVALUE L\$SA121,ML\$000(4,121),XL LSA STORAGE AREA 121

SAVEVALUE L\$SA122,ML\$000(4,122),XL LSA STORAGE AREA 122

SAVEVALUE L\$SA123,ML\$000(4,123),XL LSA STORAGE AREA 123

SAVEVALUE L\$SA124,ML\$000(4,124),XL LSA STORAGE AREA 124

SAVEVALUE L\$SA125,ML\$000(4,125),XL LSA STORAGE AREA 125

SAVEVALUE L\$SA126,ML\$000(4,126),XL LSA STORAGE AREA 126

SAVEVALUE L\$SA127,ML\$000(4,127),XL LSA STORAGE AREA 127

SAVEVALUE L\$SA128,ML\$000(4,128),XL LSA STORAGE AREA 128

SAVEVALUE L\$SA129,ML\$000(4,129),XL LSA STORAGE AREA 129

SAVEVALUE L\$SA130,ML\$000(4,130),XL LSA STORAGE AREA 130

SAVEVALUE L\$SA131,ML\$000(4,131),XL LSA STORAGE AREA 131

SAVEVALUE L\$SA132,ML\$000(4,132),XL LSA STORAGE AREA 132

SAVEVALUE L\$SA133,ML\$000(4,133),XL LSA STORAGE AREA 133

SAVEVALUE L\$SA134,ML\$000(4,134),XL LSA STORAGE AREA 134

SAVEVALUE L\$SA135,ML\$000(4,135),XL LSA STORAGE AREA 135

SAVEVALUE L\$SA136,ML\$000(4,136),XL LSA STORAGE AREA 136

SAVEVALUE L\$SA137,ML\$000(4,137),XL LSA STORAGE AREA 137

SAVEVALUE L\$SA138,ML\$000(4,138),XL LSA STORAGE AREA 138

SAVEVALUE L\$SA139,ML\$000(4,139),XL LSA STORAGE AREA 139

SAVEVALUE L\$SA140,ML\$000(4,140),XL LSA STORAGE AREA 140

SAVEVALUE L\$SA141,ML\$000(4,141),XL LSA STORAGE AREA 141

SAVEVALUE L\$SA142,ML\$000(4,142),XL LSA STORAGE AREA 142

SAVEVALUE L\$SA143,ML\$000(4,143),XL LSA STORAGE AREA 143

SAVEVALUE L\$SA144,ML\$000(4,144),XL LSA STORAGE AREA 144

SAVEVALUE L\$SA145,ML\$000(4,145),XL LSA STORAGE AREA 145

SAVEVALUE L\$SA146,ML\$000(4,146),XL LSA STORAGE AREA 146

SAVEVALUE L\$SA147,ML\$000(4,147),XL LSA STORAGE AREA 147

SAVEVALUE L\$SA148,ML\$000(4,148),XL LSA STORAGE AREA 148

SAVEVALUE L\$SA149,ML\$000(4,149),XL LSA STORAGE AREA 149

SAVEVALUE L\$SA150,ML\$000(4,150),XL LSA STORAGE AREA 150

SAVEVALUE L\$SA151,ML\$000(4,151),XL LSA STORAGE AREA 151

SAVEVALUE L\$SA152,ML\$000(4,152),XL LSA STORAGE AREA 152

SAVEVALUE L\$SA153,ML\$000(4,153),XL LSA STORAGE AREA 153

SAVEVALUE L\$SA154,ML\$000(4,154),XL LSA STORAGE AREA 154

SAVEVALUE L\$SA155,ML\$000(4,155),XL LSA STORAGE AREA 155

SAVEVALUE L\$SA156,ML\$000(4,156),XL LSA STORAGE AREA 156

SAVEVALUE L\$SA157,ML\$000(4,157),XL LSA STORAGE AREA 157

SAVEVALUE L\$SA158,ML\$000(4,158),XL LSA STORAGE AREA 158

SAVEVALUE L\$SA159,ML\$000(4,159),XL LSA STORAGE AREA 159

SAVEVALUE L\$SA160,ML\$000(4,160),XL LSA STORAGE AREA 160

SAVEVALUE L\$SA161,ML\$000(4,161),XL LSA STORAGE AREA 161

SAVEVALUE L\$SA162,ML\$000(4,162),XL LSA STORAGE AREA 162

SAVEVALUE L\$SA163,ML\$000(4,163),XL LSA STORAGE AREA 163

SAVEVALUE L\$SA164,ML\$000(4,164),XL LSA STORAGE AREA 164

SAVEVALUE L\$SA165,ML\$000(4,165),XL LSA STORAGE AREA 165

SAVEVALUE L\$SA166,ML\$000(4,166),XL LSA STORAGE AREA 166

SAVEVALUE L\$SA167,ML\$000(4,167),XL LSA STORAGE AREA 167

SAVEVALUE L\$SA168,ML\$000(4,168),XL LSA STORAGE AREA 168

SAVEVALUE L\$SA169,ML\$000(4,169),XL LSA STORAGE AREA 169

SAVEVALUE L\$SA170,ML\$000(4,170),XL LSA STORAGE AREA 170

SAVEVALUE L\$SA171,ML\$000(4,171),XL LSA STORAGE AREA 171

SAVEVALUE L\$SA172,ML\$000(4,172),XL LSA STORAGE AREA 172

SAVEVALUE L\$SA173,ML\$000(4,173),XL LSA STORAGE AREA 173

SAVEVALUE L\$SA174,ML\$000(4,174),XL LSA STORAGE AREA 174

SAVEVALUE L\$SA175,ML\$000(4,175),XL LSA STORAGE AREA 175

PLUCK NUMBER	*LOC	OPERATION	A,B,C,D,E,F,G,H,I,J	COMMENTS	CARD NUMBER
1060	*	ASSIGN	2,XSAFE12	TIME DELIVERY STARTS (MINUTES) FOR ASSAULT FOLLOW-ON ECHELON INITIAL SUPPLY	15 PE0806
1061	*	SAVEVALUE	AF1,V8AAB,XL	TIME DELIVERY STARTS (DAYS) FOR ASSAULT FOLLOW-ON ECHELON INITIAL SUPPLY	16 PE0806
1062		ASSIGN	2,XSAFE22		17 PE0806
1063		SAVEVALUE	AFE2,V8AAB,XL		18 PE0806
1064		ASSIGN	2,XSAFE32		19 PE0806
1065		SAVEVALUE	AFE3,V8AAB,XL		20 PE0806
1066		ASSIGN	2,XSAFE42		21 PE0806
1067		SAVEVALUE	AFE4,V8AAB,XL		22 PE0806
1068		ASSIGN	2,XSAFE52		23 PE0806
1069		SAVEVALUE	AFE5,V8AAB,XL		24 PE0806
1070		ASSIGN	2,XSAFE62		25 PE0806
1071		SAVEVALUE	AFE6,V8AAB,XL		26 PE0806
1072		ASSIGN	2,XSAFE72		27 PE0806
1073		SAVEVALUE	AFE7,V8AAB,XL		28 PE0806
1074		ASSIGN	2,XSAFE82		29 PE0806
1075		SAVEVALUE	AFE8,V8AAB,XL		30 PE0806
1076		ASSIGN	2,XSAFE92		31 PE0806
1077		SAVEVALUE	AFE9,V8AAB,XL		32 PE0806
1078	*	ASSIGN	2,XSFRM12	TIME DELIVERY STARTS (MINUTES) FOR FORCE RESUPPLY FOR MISSION DURATION	33 PE0806
1079	*	SAVEVALUE	FRM1,V8AAB,XL	TIME DELIVERY STARTS (DAYS) FOR FORCE RESUPPLY FOR MISSION DURATION	34 PE0806
1080		ASSIGN	2,XSFRM22		35 PE0806
1081		SAVEVALUE	FRM2,V8AAB,XL		36 PE0806
1082		ASSIGN	2,XSFRM32		37 PE0806
1083		SAVEVALUE	FRM3,V8AAB,XL		38 PE0806
1084		ASSIGN	2,XSFRM42		39 PE0806
1085		SAVEVALUE	FRM4,V8AAB,XL		40 PE0806
1086		ASSIGN	2,XSFRM52		41 PE0806
1087		SAVEVALUE	FRM5,V8AAB,XL		42 PE0806
1088		ASSIGN	2,XSFRM62		43 PE0806
1089		SAVEVALUE	FRM6,V8AAB,XL		44 PE0806
1090		ASSIGN	2,XSFRM72		45 PE0806
1091		SAVEVALUE	FRM7,V8AAB,XL		46 PE0806
1092		ASSIGN	2,XSFRM82		47 PE0806
1093		SAVEVALUE	FRM8,V8AAB,XL		48 PE0806
1094		ASSIGN	2,XSFRM92		49 PE0806
1095		SAVEVALUE	FRM9,V8AAB,XL		50 PE0806
1096		ASSIGN	2,XSFRM102		51 PE0806
1097		SAVEVALUE	FRM10,V8AAB,XL		52 PE0806
1098		ASSIGN	2,XSFRM112		53 PE0806
1099		SAVEVALUE	FRM11,V8AAB,XL		54 PE0806
1100		ASSIGN	2,XSFRM122		55 PE0806
1101		SAVEVALUE	FRM12,V8AAB,XL		56 PE0806
1102		ASSIGN	1,33		57 PE0806
1103	DAG	TEST G	WLSHHH(P1,2),XLBZERO,DAG	TEST IF CONSTRUCTION IS FINISHED ON AREA P1	58 PE0822
1104		SAVEVALUE	P1,V8PAA,XL	COMPUTE CONSTRUCTION TIME	59 PE0822
1105		ASSIGN	2,P1		60 PE0822
1106		ASSIGN	2+,33		61 PE0822
1107		SAVEVALUE	P2,V8BAA,XL	COMPUTE MOE FOR AREA P1	62 PE0822
1108	DAG	LOCP	1,DAG		63 PE0822
1109		SAVEVALUE	CTM30,V8BAP,XL	SUM OF TEMPORARY AND PERMANENT	64 PE0826

BLOCK NUMBER	*LOC	OPERATION	A,P,C,D,E,F,G,H,I,J	COMMENTS	CARD NUMBER
1110	*	SAVEVALUE	CTM31,V8BAQ,XL	CONSTRUCTION TIMES FOR MSR 1	PE0826 6 1925
1111	*	SAVEVALUE	CTM32,V8BAP,XL	SUM OF TEMPORARY AND PERMANENT CONSTRUCTION TIMES FOR MSR 2	PE0826 7 1926
1112	*	SAVEVALUE	CTM33,V8BAS,XL	SUM OF TEMPORARY AND PERMANENT CONSTRUCTION TIMES FOR MSR 3	PE0826 8 1927
1113	*	SAVEVALUE	CTM34,V8BAC,XL	SUM OF TEMPORARY AND PERMANENT CONSTRUCTION TIMES FOR MSR 4	PE0826 9 1928
1114	*	SAVEVALUE	CTM35,V8BAD,XL	SUM OF PERMANENT MSR CONSTRUCTION TIMES	PE0826 10 1929
1115	*	SAVEVALUE	CTM36,V8BAE,XL	SUM OF LSA CONSTRUCTION TIMES	PE0826 11 1930
1116	*	SAVEVALUE	CTM37,V8BAU,XL	SUM OF ASF CONSTRUCTION TIMES	PE0826 12 1931
1117	*	SAVEVALUE	CTM38,V8BAG1,XL	SUM OF AAFS CONSTRUCTION TIMES	PE0826 5 1932
1118	*	SAVEVALUE	CTM39,V8BAV,XL	SUM OF ALL CONSTRUCTION TIMES	PE0826 6 1933
1119	*	SAVEVALUE	BSAT,V8BAC,XL	MOE FOR BSA	PE0826 7 1934
1120	*	SAVEVALUE	MSRPT,V8BAC,XL	MOE FOR PERMANENT MSR	PE0826 8 1935
1121	*	SAVEVALUE	LSAT,V8BAE,XL	MOE FOR LSA	PE0826 9 1936
1122	*	SAVEVALUE	ASPT,V8BAF,XL	MOE FOR ASF	PE0826 10 1937
1123	*	SAVEVALUE	AAFT,V8BAG,XL	MOE FOR AAFS	PE0826 11 1938
1124	*	SAVEVALUE	BSAS,V8BAH,XL	MOE FOR BSA	PE0826 12 1939
1125	*	SAVEVALUE	MSRPS,V8BAJ,XL	MOE FOR PERMANENT MSR	PE0826 26 1940
1126	*	SAVEVALUE	LSAS,V8BAK,XL	MOE FOR LSA	PE0826 28 1941
1127	*	SAVEVALUE	ASPS,V8BAL,XL	MOE FOR ASF	PE0826 29 1942
1128	*	SAVEVALUE	AAFPS,V8BAM,XL	MOE FOR AAFS	PE0826 30 1943
1129	*	SAVEVALUE	ALSAT,V8BAN,XL	MOE FOR ALSA	PE0826 31 1944
1130	*	SAVEVALUE	ALSAS,V8BAO,XL	MOE FOR ALSA	PE0826 32 1945
1131	*	TERMINATE	1	SHUT OFF THE RUN	PE0826 33 1946
1132	*	KNATT LINK	PH1,FIFO		PE0826 34 1947
1133	*	RFTRY TRANSFER	PH,13,1		PE0826 35 1948
	*	USE OUTPUT EDITOR			PE0826 36 1949
	*	REPORT EJECT	ALSA		PE0826 37 1950
	*	SPACE	10	DAVID TAYLOR NAVAL SHIP RESEARCH AND DEVX	PE0826 186 1951
	*	FLOPPY CENTER SPACE	1	COMPUTATION, MATHEMATICS AND LOGISTICS	PE0826 26 1961
	*	DEPARTMENT SPACE	1	LOGISTICS DIVISION	PE0826 27 1962
	*	SPACE	1	BETMESDA, MARYLAND 20084	PE0826 13 1963
	*	SPACE	5	AMPHIBIOUS LOGISTICS SUPPORT ASHORE (X	PE0826 28 1964
	*	ALSA) ANALYSTS SPACE	1	CASE NUMBER 0XMCSENO,2/XXX#	PE0826 29 1965
40	TEXT			MISSION DURATION = 0XLS\$TIME\$X,2/XXX.X# DAYS	PE0826 15 1966
40	TEXT			DELAY TIME (RSA) = 0XLS\$OTBSX,2/XX.X# HOURS	PE0826 16 1967
40	TEXT			DELAY TIME (NON-RSA) = 0XLS\$OTOBX,2/XX.X# HOURS	PE0826 17 1968
40	TEXT			DISTANCE BETWEEN BSA AND LSA = 0XLS\$LSBS,2/XX.X# MILES	PE0826 18 1969
					PE0826 19 1970
					PE0826 20 1971
					PE0826 21 1972
					PE0826 22 1973
					PE0826 23 1974
					PE0826 30 1975
					PE0826 31 1976
					PE0826 32 1977
					PE0826 33 1978
					PE0826 34 1979

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N S P O C GPSS V/6000

BLOCK NUMBER	*LNC	OPERATION	A,B,C,D,E,F,G,H,I,J	COMMENTS	CARD NUMBER
1	TEXT	BSA DUMP 1		0X PE0021	5
10	TEXT	BSA DUMP 2		0X PE0411	5
10	TEXT	BSA DUMP 3		0X PE0021	7
10	TEXT	BSA DUMP 4		0X PE0411	6
10	TEXT	BSA TOTAL		0X PE0021	9
10	TEXT	BSA TOTAL		0X PE0411	7
10	TEXT	BSA TOTAL		0X PE0021	11
10	TEXT	BSA TOTAL		0X PE0411	8
10	TEXT	BSA TOTAL		0X PE0021	12
10	TEXT	BSA TOTAL		0X PE0411	13
10	TEXT	BSA TOTAL		0X PE0021	13
10	TEXT	BSA TOTAL		0X PE0411	14
10	TEXT	BSA TOTAL		0X PE0021	16
10	TEXT	BSA TOTAL		0X PE0411	10
10	TEXT	BSA TOTAL		0X PE0021	10
10	TEXT	BSA TOTAL		0X PE0411	11
10	TEXT	BSA TOTAL		0X PE0021	20
10	TEXT	BSA TOTAL		0X PE0411	12
10	TEXT	BSA TOTAL		0X PE0021	22
10	TEXT	BSA TOTAL		0X PE0411	23
10	TEXT	BSA TOTAL		0X PE0021	13
10	TEXT	BSA TOTAL		0X PE0411	2056
10	TEXT	BSA TOTAL		0X PE0021	25
10	TEXT	BSA TOTAL		0X PE0411	14
10	TEXT	BSA TOTAL		0X PE0021	27
10	TEXT	BSA TOTAL		0X PE0411	15
10	TEXT	BSA TOTAL		0X PE0021	29
10	TEXT	BSA TOTAL		0X PE0411	16
10	TEXT	BSA TOTAL		0X PE0021	14
10	TEXT	BSA TOTAL		0X PE0411	15
10	TEXT	BSA TOTAL		0X PE0021	31
10	TEXT	BSA TOTAL		0X PE0411	32
10	TEXT	BSA TOTAL		0X PE0021	17
10	TEXT	BSA TOTAL		0X PE0411	34
10	TEXT	BSA TOTAL		0X PE0021	18
10	TEXT	BSA TOTAL		0X PE0411	36
10	TEXT	BSA TOTAL		0X PE0021	19
10	TEXT	BSA TOTAL		0X PE0411	38
10	TEXT	BSA TOTAL		0X PE0021	20
10	TEXT	BSA TOTAL		0X PE0411	40
10	TEXT	BSA TOTAL		0X PE0021	21
10	TEXT	BSA TOTAL		0X PE0411	42
10	TEXT	BSA TOTAL		0X PE0021	22
10	TEXT	BSA TOTAL		0X PE0411	44
10	TEXT	BSA TOTAL		0X PE0021	23
10	TEXT	BSA TOTAL		0X PE0411	16
10	TEXT	BSA TOTAL		0X PE0021	17
10	TEXT	BSA TOTAL		0X PE0411	46
10	TEXT	BSA TOTAL		0X PE0021	47
10	TEXT	BSA TOTAL		0X PE0411	24
10	TEXT	BSA TOTAL		0X PE0021	49
10	TEXT	BSA TOTAL		0X PE0411	25
10	TEXT	BSA TOTAL		0X PE0021	51
10	TEXT	BSA TOTAL		0X PE0411	26
10	TEXT	BSA TOTAL		0X PE0021	53

BLOCK NUMBER	*LOC	OPERATION	A,B,C,D,E,F,G,H,I,J	COMMENTS	CARD NUMBER
		XLSCM24,2/XX.XX#		PE0411	27
	10	TEXT	ASP REVETMENT A1	0X PE0821	55
	XLSCM25,2/XX.XX#			PE0411	20
	10	TEXT	ASP REVETMENT A2	0X PE0821	57
	XLSCM26,2/XX.XX#			PE0411	29
	10	TEXT	ASP REVETMENT A3	0X PE0821	59
	XLSCM27,2/XX.XX#			PE0411	30
	10	TEXT	ASP REVETMENT A4	0X PE0821	61
	XLSCM28,2/XX.XX#			PE0411	31
	10	TEXT	ASP PPSIMETER	0X PE0821	63
	XLSCM29,2/XX.XX#			PE0411	32
	10	TEXT	ASP TOTAL	0XLSCTM37,2/XXX	10
	.XX#			PE0827	19
	SPACE	2		PE0821	65
	10	TEXT	AAFS1	0X PE0821	66
	XLSCM10,2/XX.XX#			PE0411	33
	10	TEXT	AAFS2	0X PE0821	68
	XLSCM11,2/XX.XX#			PE0411	34
	10	TEXT	AAFS3	0X PE0821	70
	XLSCM12,2/XX.XX#			PE0411	35
	10	TEXT	AAFS4	0X PE0821	72
	XLSCM13,2/XX.XX#			PE0411	36
	10	TEXT	AAFS TOTAL	0XLSCTM38,2/XXX	20
	.XX#			PE0827	21
	SPACE	2		PE0825	27
	10	TEXT	ALSA TOTAL	0XLSCTM39,2/XXX	22
	.XX#			PE0827	23
	EJECT			PE0629	7
	*			PE0706	1
	*			PE0706	2
	S			PE0630	2
	SPACE	1		PE0629	3
	ORCLIFT FOR POL			PE0629	10
	* SLDR = SCOOP LOADERS			PE0629	11
	* FORKLIFT FOR AMW			PE0629	12
	* DTRK = DUMP TRUCKS			PE0629	13
	* CONTAINER LIFT			PE0629	14
	* RULLR = ROLLERS			PE0629	15
	* CONTAINER LIFT			PE0629	16
	* GPRB = GRADERS			PE0629	17
	* NSTUFFING EQUIPMENT			PE0629	18
	* SFCR = SURFACERS			PE0629	19
	* CONTAINER LIFT			PE0629	20
	* BKHO = BACKHOES			PE0629	21
	* NSTUFFING EQUIPMENT			PE0629	22
	* ONTATNER LIFT			PE0629	23
	* RULLR = BULLDOZERS			PE0629	24
	* NSTUFFING EQUIPMENT			PE0629	25
	* ONTATNER LIFT			PE0629	26
	* RULLR = BULLDOZERS			PE0629	27
	* NSTUFFING EQUIPMENT			PE0629	28
	* TWGE = TOWING EQUIPMENT			PE0629	29
	* S AT BFACH			PE0629	30
	* S AT BSA			PE0629	31
	* S AT BSA			PE0629	32

EQUIPMENT DEFINITIONS (STORAGES) ARE AS FOLLOWS

FKLH = LSA FX

FKLJ = ASP 1X

CNLA = BEACHX

CNLA = BSA CX

UNSA = BSA UX

CNLC = LSA CX

UNSB = LSA UX

CNLD = ASP CX

UNSC = ASP UX

CRNA = CRANEX

CRNB = CRANEX

CRNB = CRANEX

CRNB = CRANEX

CRNB = CRANEX

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N S R P C C C C C V/6000

CARD
NUMBER

COMMENTS

* LDCR OPERATION A,B,C,D,E,F,G,H,I,J

* LDCR	DUMP TRUCK AT LSA	UNSA	BSX	PE0630	39	2200
* UNSTUFFING EQUIPMENT					40	2201
* LDCR	ROLLER AT LSA	CNLC	LSX	PE0630	41	2202
* CONTAINER LIFT					42	2203
* LDCR	GRADER AT LSA	UNSB	LSX	PE0630	43	2204
* UNSTUFFING EQUIPMENT					44	2205
* LDCR	SURFACER AT LSA	CNLD	ASX	PE0630	45	2206
* CONTAINER LIFT					46	2207
* LDCR	BULLDOZER AT ASP	UNSC	ASX	PE0630	47	2208
* UNSTUFFING EQUIPMENT					48	2209
* LDCR	SCRAPER AT ASP	CRNA	CRX	PE0630	49	2210
* CONTAINER LIFT					50	2211
* LDCR	SCOOP LOADER AT ASP	CRNB	CRX	PE0630	51	2212
* UNSTUFFING EQUIPMENT					52	2213
* LDCR	GRADER AT ASP	CRNC	CRX	PE0630	53	2214
* CONTAINER LIFT					54	2215
* LDCR	ROLLER AT ASP	FKLK	ASX	PE0630	55	2216
* UNSTUFFING EQUIPMENT					56	2217
* LDCR	BULLDOZER AT AAFS	FKLL	ASX	PE0630	57	2218
* CONTAINER LIFT					58	2219
* LDCR	GRADER AT AAFS	FKLM	ASX	PE0630	59	2220
* UNSTUFFING EQUIPMENT					60	2221
* LDCR	SCRAPER AT AAFS	TRKB	FLX	PE0630	61	2222
* CONTAINER LIFT					62	2223
* LDCR	SCOOP LOADER AT AAFS	TRKC	FLX	PE0630	63	2224
* UNSTUFFING EQUIPMENT					64	2225
* LDCR	CRANE AT AAFS				65	2226
* CONTAINER LIFT					66	2227
* LDCR	MAXIMUM TOTAL NO. OF REQUESTS	AVERAGE			11	2228
* UNSTUFFING EQUIPMENT		WAIT IN			12	2229
* LDCR	NO. OF REQUESTS WITH NO QUEUE				13	2230
* CONTAINER LIFT		WAITING (MINUTES)			1	2231
* LDCR	SPACE INCLUDE				70	2232
* UNSTUFFING EQUIPMENT					7	2233
* LDCR	EJECT				72	2234
* CONTAINER LIFT					8	2235
* LDCR					9	2236
* UNSTUFFING EQUIPMENT					27	2237
* LDCR					28	2238
* CONTAINER LIFT					29	2239
* LDCR					30	2240
* UNSTUFFING EQUIPMENT					31	2241
* LDCR					32	2242
* CONTAINER LIFT					33	2243
* LDCR					34	2244
* UNSTUFFING EQUIPMENT					35	2245
* LDCR					36	2246
* CONTAINER LIFT					4	2247
* LDCR					38	2248
* UNSTUFFING EQUIPMENT					39	2249
* LDCR					40	2250
* CONTAINER LIFT					41	2251
* LDCR					42	2252
* UNSTUFFING EQUIPMENT					43	2253
* LDCR					44	2254

* INPUT SECTION *

SUPPLY MATRIX
MAF CARGO REQUIREMENTS

THERE ARE TWELVE DIFFERENT TYPES OF CARGO
1 = BREAK BULK, GENERAL CARGO
2 = BREAK BULK, POL
3 = BREAK BULK, AMMO
4 = CONTAINERIZED GENERAL CARGO, TO BE UNSTUFFED
5 = CONTAINERIZED AMMO, TO BE UNSTUFFED
6 = CONTAINERIZED DRUM POL, TO BE UNSTUFFED

BLOCK NUMBER	LOC	OPERATION	A,B,C,D,E,F,G,H,I,J	COMMENTS	PE0706	CARD NUMBER
1	MS	THAT ARE SIMULATED.		THE TABLE BELOW LISTS THE CONSTRUCTION OPERATIONS	PE0706	12
2	DATA	DESCRIBING THESE OPERATIONS IS LISTED IN MX			PE0706	13
3	ATRIX AAA	WHICH FOLLOWS THIS			PE0706	14
4		TABLE.			PE0706	15
5					PE0706	16
6					PE0706	17
7					PE0706	18
8					PE0706	19
9					PE0706	20
10					PE0706	21
11					PE0706	22
12					PE0706	23
13					PE0706	24
14					PE0706	25
15					PE0706	26
16					PE0706	27
17					PE0706	28
18					PE0706	29
19					PE0706	30
20					PE0706	31
21					PE0706	32
22					PE0706	33
23					PE0706	34
24					PE0706	35
25					PE0706	36
26					PE0706	37
27					PE0706	38
28					PE0706	39
29					PE0706	40
30					PE0706	41
31					PE0706	42
32					PE0706	43
33					PE0706	44
34					PE0706	45
35					PE0706	46
36					PE0706	47
37					PE0706	48
38					PE0706	49
39					PE0706	50
40					PE0706	51
41					PE0706	52
42					PE0706	53
43					PE0706	54
44					PE0706	55
45					PE0706	56
46					PE0706	57
47					PE0706	58
48					PE0706	59
49					PE0706	60
50					PE0706	61
51					PE0706	62
52					PE0706	63
53					PE0706	64
54					PE0706	65
55					PE0706	66
56					PE0706	67
57					PE0706	68
58					PE0706	69
59					PE0706	70
60					PE0706	71
61					PE0706	72
62					PE0706	73
63					PE0706	74
64					PE0706	75
65					PE0706	76
66					PE0706	77
67					PE0706	78
68					PE0706	79
69					PE0706	80
70					PE0706	81
71					PE0706	82
72					PE0706	83
73					PE0706	84
74					PE0706	85
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257					PE0706	268
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QLOC NUMBER	OPERATION	A, R, C, D, E, F, G, H, I, J	COMMENTS	CARD NUMBER
*	P=17, R=52	STRIP UNSTUFFING AREA (LSA)	SCRAPER	PE0017 44
*	P=20, R=53	STRIP ADMINISTRATIVE AREA (LSA)	SCRAPER	PE0017 45
*	P=14, R=54	FILL STORAGE AREA 1 (LSA)	DUMP TRUCK	PE0017 46
*	P=15, R=55	FILL STORAGE AREA 2 (LSA)	DUMP TRUCK	PE0017 47
*	P=16, R=56	FILL STORAGE AREA 3 (LSA)	DUMP TRUCK	PE0017 48
*	P=17, R=57	FILL UNSTUFFING AREA (LSA)	DUMP TRUCK	PE0017 49
*	P=18, R=58	FILL TRUCK LOADING AREA (LSA)	DUMP TRUCK	PE0017 50
*	P=20, R=59	FILL ADMINISTRATIVE AREA (LSA)	DUMP TRUCK	PE0017 51
*	P=14, R=60	COMPACT STORAGE AREA 1 (LSA)	ROLLER	PE0017 52
*	P=15, R=61	COMPACT STORAGE AREA 2 (LSA)	ROLLER	PE0017 53
*	P=16, R=62	COMPACT STORAGE AREA 3 (LSA)	ROLLER	PE0017 54
*	P=17, R=63	COMPACT UNSTUFFING AREA (LSA)	ROLLER	PE0017 55
*	P=18, R=64	COMPACT TRUCK LOADING AREA (LSA)	ROLLER	PE0017 56
*	P=20, R=65	COMPACT ADMINISTRATIVE AREA (LSA)	ROLLER	PE0017 57
*	P=14, R=66	GRADE STORAGE AREA 1 (LSA)	GRADER	PE0017 58
*	P=15, R=67	GRADE STORAGE AREA 2 (LSA)	GRADER	PE0017 59
*	P=16, R=68	GRADE STORAGE AREA 3 (LSA)	GRADER	PE0017 60
*	P=17, R=69	GRADE UNSTUFFING AREA (LSA)	GRADER	PE0017 61
*	P=18, R=70	GRADE TRUCK LOADING AREA (LSA)	GRADER	PE0017 62
*	P=19, R=71	GRADE PALLET STAGING AREA (LSA)	GRADER	PE0017 63
*	P=20, R=72	GRADE ADMINISTRATIVE AREA (LSA)	GRADER	PE0017 64
*	P=14, R=73	SURFACE STORAGE AREA 1 (LSA)	SURFACER	PE0017 65
*	P=15, R=74	SURFACE STORAGE AREA 2 (LSA)	SURFACER	PE0017 66
*	P=16, R=75	SURFACE STORAGE AREA 3 (LSA)	SURFACER	PE0017 67
*	P=17, R=76	SURFACE UNSTUFFING AREA (LSA)	SURFACER	PE0017 68
*	P=21, R=77	CLEAR ROAD A1 (ASP)	BULLDOZER	PE0017 69
*	P=22, R=78	CLEAR ROAD A2 (ASP)	BULLDOZER	PE0017 70
*	P=23, R=79	CLEAR ROAD A3 (ASP)	BULLDOZER	PE0017 71
*	P=24, R=80	CLEAR ROAD A4 (ASP)	BULLDOZER	PE0017 72
*	P=25, R=81	CLEAR REVEGETMENT A1 (ASP)	BULLDOZER	PE0017 73
*	P=26, R=82	CLEAR REVEGETMENT A2 (ASP)	BULLDOZER	PE0017 74
*	P=27, R=83	CLEAR REVEGETMENT A3 (ASP)	BULLDOZER	PE0017 75
*	P=28, R=84	CLEAR REVEGETMENT A4 (ASP)	BULLDOZER	PE0017 76
*	P=29, R=85	CLEAR PERIMETER (ASP)	BULLDOZER	PE0017 77
*	P=25, R=86	DEPOSIT MATERIAL FOR BERMS ON REVEGETMENT A1 (ASP)	BULLDOZER	PE0017 78
)	SCRAPER			PE0017 79
*	P=26, R=87	DEPOSIT MATERIAL FOR BERMS ON REVEGETMENT A2 (ASP)	BULLDOZER	PE0017 80
)	SCRAPER			PE0017 81
*	P=27, R=88	DEPOSIT MATERIAL FOR BERMS ON REVEGETMENT A3 (ASP)	BULLDOZER	PE0017 82
)	SCRAPER			PE0017 83
*	P=29, R=89	DEPOSIT MATERIAL FOR BERMS ON REVEGETMENT A4 (ASP)	BULLDOZER	PE0017 84
)	SCRAPER			PE0017 85
*	P=25, R=90	PILE EARTH AT BERMS FOR REVEGETMENT A1 (ASP)	BULLDOZER	PE0017 86
SCNPP LOADER				PE0017 87
*	P=26, R=91	PILE EARTH AT BERMS FOR REVEGETMENT A2 (ASP)	BULLDOZER	PE0017 88
SCNPP LOADER				PE0017 89
*	P=27, R=92	PILE EARTH AT BERMS FOR REVEGETMENT A3 (ASP)	BULLDOZER	PE0017 90
SCNPP LOADER				PE0017 91
*	P=28, R=93	PILE EARTH AT BERMS FOR REVEGETMENT A4 (ASP)	BULLDOZER	PE0017 92
SCNPP LOADER				PE0017 93
*	P=25, R=94	SHAPE BERMS FOR REVEGETMENT A1 (ASP)	GRADER	PE0017 94
*	P=26, R=95	SHAPE BERMS FOR REVEGETMENT A2 (ASP)	GRADER	PE0017 95
*	P=27, R=96	SHAPE BERMS FOR REVEGETMENT A3 (ASP)	GRADER	PE0017 96
*	P=28, R=97	SHAPE BERMS FOR REVEGETMENT A4 (ASP)	GRADER	PE0017 97
*	P=21, R=98	COMPACT ROAD A1 (ASP)	ROLLER	PE0017 98

BLOCK NUMBER	LOC	OPERATION	A, R, C, D, E, F, G, H, I, J	COMMENTS	PE0017	CARD NUMBER
*		P=22, F=99	COMPACT ROAD A2 (ASP)	ROLLER	PE0017	2475
*		P=23, P=100	COMPACT ROAD A3 (ASP)	ROLLER	PE0017	2476
*		P=24, P=101	COMPACT ROAD A4 (ASP)	ROLLER	PE0017	2477
*		P=21, R=102	GRADE ROAD A1 (ASP)	GRADER	PE0017	2478
*		P=22, R=103	GRADE ROAD A2 (ASP)	GRADER	PE0017	2479
*		P=23, R=104	GRADE ROAD A3 (ASP)	GRADER	PE0017	2480
*		P=24, R=105	GRADE ROAD A4 (ASP)	GRADER	PE0017	2481
*		P=21, R=106	STRIP ROAD A1 (ASP)	SCRAPER	PE0017	2482
*		P=22, R=107	STRIP ROAD A2 (ASP)	SCRAPER	PE0017	2483
*		P=23, P=108	STRIP ROAD A3 (ASP)	SCRAPER	PE0017	2484
*		P=24, R=109	STRIP ROAD A4 (ASP)	SCRAPER	PE0017	2485
*		P=10, R=110	CLEAR AAFS1	BULLDOZER	PE0018	2486
*		P=11, R=111	CLEAR AAFS2	BULLDOZER	PE0018	2487
*		P=12, R=112	CLEAR AAFS3	BULLDOZER	PE0018	2488
*		P=13, P=113	CLEAR AAFS4	BULLDOZER	PE0018	2489
*		P=10, R=114	GRADE AAFS1	GRADER	PE0018	2490
*		P=11, R=115	GRADE AAFS2	GRADER	PE0018	2491
*		P=12, R=116	GRADE AAFS3	GRADER	PE0018	2492
*		P=13, P=117	GRADE AAFS4	GRADER	PE0018	2493
*		P=10, R=118	DEPOSIT BERM MATERIAL FOR BERM 1	SCRAPER	PE0018	2494
*		P=11, R=119	DEPOSIT BERM MATERIAL FOR BERM 2	SCRAPER	PE0018	2495
*		P=12, P=120	DEPOSIT BERM MATERIAL FOR BERM 3	SCRAPER	PE0018	2496
*		P=13, R=121	DEPOSIT BERM MATERIAL FOR BERM 4	SCRAPER	PE0018	2497
*		P=10, R=122	PILE EARTH AT BERM 1	SCOOP LOADER	PE0018	2498
*		P=11, R=123	PILE EARTH AT BERM 2	SCOOP LOADER	PE0018	2499
*		P=12, R=124	PILE EARTH AT BERM 3	SCOOP LOADER	PE0018	2500
*		P=13, R=125	PILE EARTH AT BERM 4	SCOOP LOADER	PE0018	2501
*		P=10, R=126	SHAPE BERM 1	GRADER	PE0018	2502
*		P=11, R=127	SHAPE BERM 2	GRADER	PE0018	2503
*		P=12, R=128	SHAPE BERM 3	GRADER	PE0018	2504
*		P=13, R=129	SHAPE BERM 4	GRADER	PE0018	2505
*		SPACE 3			PE0210	2506
*		SPACE 2		CONSTRUCTION INPUT MATRIX AAA	PE0706	2507
*		OF EQUIPMENT	SQUARE FEET	RATE(SQ FT/MIN)	PE0706	2508
*				NUMBER X	PE0706	2509
ING OPERATION				PERFORMX	PE0706	2510
SPACE	1				PE0706	2511
FMS	AAA				PE0706	2512
EJECT					PE0706	2513
*					PE0706	2514
*					PE0706	2515
*					PE0706	2516
N DESCRIPTION				CARGO HANDLING AND TRANSPORTATION	PE0706	2517
SPACE	1				PE0706	2518
*				THE TABLE BELOW LISTS THE CARGO HANDLING AND TRX	PE0706	2519
ANSPORTATION OPERATIONS THAT					PE0706	2520
ARE SIMULATED AND THE CORRESPONDING ELEMENTS INX					PE0706	2521
MATEY CCC WHERE THE DATA					PE0706	2522
				DESCRIBING THESES OPERATIONS IS LOCATED	PE0706	2523
SPACE 2					PE0706	2524
CCC(7,I), I=1-3				TYPE OF BEACH FORKLIFT USED TO LOAD CARGO TYPE I OR	PE0207	2525
NTD TRUCK (PAGE 2, NODES 46, 47)					PE0207	2526
CCC(8,I), I=1-3				NUMBER OF BEACH FORKLIFTS OF TYPE CCC(7,I) USED TOX	PE0207	2527
					PE0207	2528
					PE0207	2529

BLOCK NUMBER	*LOC	OPERATION	A,B,C,D,E,F,G,H,I,J	COMMENTS	CARD NUMBER
25		LOAD ONE TRUCK WITH CARGO TYPE I			PE0207
26		* CCC(9,I), I=1-3 NUMBER OF UNITS/HOUR OF CARGO TYPE I THAT FORKLIFTX			PE0207
27		TYPE CCC(7,I) CAN TRANSFER FROM LIGHTER TO TRUCK			PE0207
28		* CCC(10,I), I=1-3 NUMBER OF UNITS OF CARGO TYPE I THAT ONE TRUCK CAX			PE0207
29		N CARRY (PAGE 2, NODE 45)			PE0207
30		* CCC(11,I), I=1-3 SPEED (IN FEET/MINUTE) OF TRUCK CARRYING CARGO TYX			PE0215
31		PE I FROM BEACH TO BSA			PE0215
32		* CCC(12,I), I=1-3 (PAGE 2, NODES 50-51)			PE0215
33		* I FROM TRUCK (PAGE 2, NODES 52-53)			PE0207
34		* CCC(13,I), I=1-3 NUMBER OF BSA FORKLIFTS OF TYPE CCC(12,I) USED TOX			PE0207
35		UNLOAD CARGO TYPE I FROM ONE TRUCK			PE0207
36		* CCC(14,I), I=1-3 NUMBER OF UNITS/HOUR OF CARGO TYPE I THAT FORKLIFX			PE0207
37		T TYPE CCC(12,I) CAN UNLOAD FROM TRUCK			PE0207
38		* CCC(15,I), I=1-3 SPEED (IN FEET/MINUTE) OF TRUCK RETURNING TO BEACH			PE0215
39		H FROM BSA AFTER DELIVERING CARGO TYPE I			PE0215
40		* CCC(16,I), I=1-3 (PAGE 2, NODES 55-56)			PE0215
41		* I FROM TRUCK (PAGE 2, NODES 57-58)			PE0207
42		* CCC(17,I), I=1-3 SPEED (IN FEET/MINUTE) OF TRUCK CARRYING CARGO TYX			PE0215
43		PE I FROM BEACH TO LSA (PAGE 2, NODES 59-60)			PE0215
44		* CCC(18,I), I=1-3 TYPE OF FORKLIFT USED AT LSA TO UNLOAD CARGO TYPEX			PE0207
45		I FROM TRUCK (PAGE 2, NODES 61-62)			PE0207
46		* CCC(19,I), I=1-3 NUMBER OF LSA FORKLIFTS OF TYPE CCC(18,I) USED TOX			PE0207
47		UNLOAD CARGO TYPE I FROM ONE TRUCK			PE0207
48		* CCC(20,I), I=1-3 NUMBER OF UNITS/HOUR OF CARGO TYPE I THAT FORKLIFX			PE0207
49		T TYPE CCC(18,I) CAN UNLOAD FROM TRUCK			PE0207
50		* CCC(21,I), I=1-3 SPEED (IN FEET/MINUTE) OF TRUCK RETURNING TO BEACH			PE0215
51		H FROM LSA AFTER DELIVERING CARGO TYPE I			PE0215
52		* CCC(22,I), I=1-3 (PAGE 2, NODES 63-64)			PE0215
53		* I FROM TRUCK (PAGE 2, NODES 65-66)			PE0207
54		* CCC(23,I), I=1-3 SPEED (IN FEET/MINUTE) OF TRUCK CARRYING CARGO TYX			PE0215
55		PE I FROM BEACH TO LSA (PAGE 2, NODES 67-68)			PE0215
56		* CCC(24,I), I=1-3 TYPE OF FORKLIFT USED AT LSA TO UNLOAD CARGO TYPEX			PE0207
57		I FROM TRUCK (PAGE 2, NODES 69-70)			PE0207
58		* CCC(25,I), I=1-3 NUMBER OF LSA FORKLIFTS OF TYPE CCC(24,I) USED TOX			PE0207
59		UNLOAD CARGO TYPE I FROM ONE TRUCK			PE0207
60		* CCC(26,I), I=1-3 NUMBER OF UNITS/HOUR OF CARGO TYPE I THAT FORKLIFX			PE0207
61		T TYPE CCC(24,I) CAN UNLOAD FROM TRUCK			PE0207
62		* CCC(27,I), I=1-3 SPEED (IN FEET/MINUTE) OF TRUCK RETURNING TO BEACH			PE0215
63		H FROM LSA AFTER DELIVERING CARGO TYPE I			PE0215
64		* CCC(28,I), I=1-3 (PAGE 2, NODES 71-72)			PE0215
65		* I FROM TRUCK (PAGE 2, NODES 73-74)			PE0207
66		* CCC(29,I), I=1-3 SPEED (IN FEET/MINUTE) OF TRUCK CARRYING CARGO TYX			PE0215
67		PE I FROM BEACH TO LSA (PAGE 2, NODES 75-76)			PE0215
68		* CCC(30,I), I=1-3 TYPE OF FORKLIFT USED AT LSA TO UNLOAD CARGO TYPEX			PE0207
69		I FROM TRUCK (PAGE 2, NODES 77-78)			PE0207
70		* CCC(31,I), I=1-3 NUMBER OF LSA FORKLIFTS OF TYPE CCC(30,I) USED TOX			PE0207
71		UNLOAD CARGO TYPE I FROM ONE TRUCK			PE0207
72		* CCC(32,I), I=1-3 NUMBER OF UNITS/HOUR OF CARGO TYPE I THAT FORKLIFX			PE0207
73		T TYPE CCC(30,I) CAN UNLOAD FROM TRUCK			PE0207
74		* CCC(33,I), I=1-3 SPEED (IN FEET/MINUTE) OF TRUCK RETURNING TO BEACH			PE0215
75		H FROM LSA AFTER DELIVERING CARGO TYPE I			PE0215
76		* CCC(34,I), I=1-3 (PAGE 2, NODES 79-80)			PE0215
77		* I FROM TRUCK (PAGE 2, NODES 81-82)			PE0207
78		* CCC(35,I), I=1-3 SPEED (IN FEET/MINUTE) OF TRUCK CARRYING CARGO TYX			PE0215
79		PE I FROM BEACH TO LSA (PAGE 2, NODES 83-84)			PE0215
80		* CCC(36,I), I=1-3 TYPE OF FORKLIFT USED AT LSA TO UNLOAD CARGO TYPEX			PE0207

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CARD
NUMBER

BLOCK NUMBER	LOC	OPERATION	A,B,C,D,E,F,G,H,I,J	COMMENTS	CARD NUMBER
81	* CCC(18,I), I=4-9	NUMBER OF CONTAINER LIFTS OF TYPE CCC(7,I) USED TOX			2585
82	LOAD ONE TRUCK WITH CARGO TYPE I				2586
83	* CCC(19,I), I=4-9	NUMBER OF CONTAINERS/HOUR OF CARGO TYPE I THAT CONX			2587
84	TAINER LIFT TYPE CCC(7,I) CAN TRANSFER				2588
85	FROM LIGHTER TO TRUCK				2589
86	* CCC(10,I), I=4-9	NUMBER OF CONTAINERS OF CARGO TYPE I THAT A TRUCKX			2590
87	CAN CARRY (PAGE 3, NODES 42-45)				2591
49	* CCC(11,I), I=4-9	SPEED (IN FEET/MINUTE) OF A TRUCK CARRYING CARGO X			2592
50	TYPE I FROM PEACH TO BSA				2593
51	(PAGE 3, NODES 66-67)				2594
91	* CCC(12,I), I=4-9	TYPE OF BSA CONTAINER LIFT USED TO UNLOAD CARGO TX			2595
92	TYPE I FROM TRUCK (PAGE 3, NODE 68)				2596
93	* CCC(13,I), I=4-9	NUMBER OF CONTAINER LIFTS OF TYPE CCC(12,I) USED X			2597
94	TO UNLOAD ONE TRUCK WITH CARGO TYPE I				2598
95	* CCC(14,I), I=4-9	NUMBER OF CONTAINERS/HOUR THAT CONTAINER LIFT TYPEX			2599
96	E CCC(12,I) CAN UNLOAD FROM TRUCK				2600
52	* CCC(15,I), I=4-9	SPEED (IN FEET/MINUTE) OF A TRUCK RETURNING TO BEX			2601
53	ACH FROM BSA AFTER DELIVERING CARGO TYPE I				2602
54	(PAGE 3, NODES 70-45)				2603
100	* CCC(16,I), I=4-6	TYPE OF UNSTUFFING EQUIPMENT USED TO UNSTUFF CARGX			2604
101	C TYPE I (PAGE 3, NODE 73)				2605
102	* CCC(17,I), I=4-6	NUMBER OF UNITS OF UNSTUFFING EQUIPMENT TYPE CCC(16,I)			2606
103	16,I) USED TO UNSTUFF ONE CONTAINER OF CARGO TYPE I				2607
104	* CCC(18,I), I=4-6	NUMBER OF CONTAINERS/HOUR OF CARGO TYPE I THAT UNX			2608
105	STUFFING EQUIPMENT TYPE CCC(16,I) CAN UNSTUFF				2609
106	* CCC(19,I), I=4-6	TYPE OF BSA FORKLIFT USED TO MOVE AND STORE UNSTUX			2610
107	FFED CARGO TYPE I				2611
108	(PAGE 3, NODES 52-53)				2612
109	* CCC(20,I), I=4-6	NUMBER OF FORKLIFTS OF TYPE CCC(19,I) USED TO MOVX			2613
110	E AND STORE UNSTUFFED CARGO TYPE I				2614
111	* CCC(21,I), I=4-6	NUMBER OF UNITS/HOUR OF UNSTUFFED CARGO TYPE I THX			2615
112	AT FORKLIFT TYPE CCC(19,I) CAN MOVE AND STORE				2616
114	* CCC(22,I), I=4-6	TYPE OF BSA CONTAINER LIFT USED TO MOVE EMPTY CONX			2617
115	TAINERS OF CARGO TYPE I TO SHORE				2618
116	(PAGE 3, NODE 68)				2619
117	* CCC(23,I), I=4-6	NUMBER OF CONTAINER LIFTS OF TYPE CCC(22,I) USED X			2620
118	TO MOVX ONE TRUCKLOAD OF EMPTY CONTAINERS				2621
119	* CCC(24,I), I=4-6	NUMBER OF EMPTY CONTAINERS/HOUR OF CARGO TYPE I TX			2622
120	HAT CONTAINER LIFT TYPE CCC(22,I) CAN MOVE				2623
121	TO SHORE				2624
122	* CCC(25,I), I=4-9	TYPE OF LSA/ASP CONTAINER LIFT USED TO UNLOAD CARGX			2625
123	GO TYPE I (PAGE 4, NODES 82-3, 96)				2626
124	* CCC(26,I), I=4-9	NUMBER OF CONTAINER LIFTS OF TYPE CCC(25,I) USED X			2627
125	TO UNLOAD ONE TRUCKLOAD OF CARGO TYPE I				2628
126	* CCC(27,I), I=4-9	NUMBER OF CONTAINERS/HOUR OF CARGO TYPE I THAT COX			2629
127	NTAINER LIFT TYPE CCC(25,I) CAN UNLOAD FROM TRUCK				2630
128	* CCC(28,I), I=7-9	TIME (IN MINUTES) REQUIRED FOR CONTAINER LIFT TYPEX			2631
129	E CCC(25,I) TO STORE ONE CONTAINER OF CARGO TYPE I				2632
130	(PAGE 4, NODES 83-81.5, 99-104)				2633
131	* CCC(29,I), I=7-9	SPEED (IN FEET/MINUTE) OF A TRUCK RETURNING TO BEX			2634
55	ACH FROM LSA/ASP AFTER DELIVERING CARGO TYPE I				2635
56	(PAGE 4, NODES 99-45, 113-45)				2636
57	* CCC(30,I), I=4-6	TYPE OF LSA/ASP UNSTUFFING EQUIPMENT USED TO UNSTX			2637
135	UFF CARGO TYPE I				2638
136					2639

N S R O C G S S V/6000 CPM GPSS V/6000 VER. 1.2 PSR 412 04/25/79 14.41.49.

BLOCK NUMBER	*LOC	OPERATION	A,B,C,D,E,F,G,H,I,J	COMMENTS	CARD NUMBER
189	ARGC	CCC(25,13)		TYPE OF LSA CRANE USED TO UNLOAD TYPE 13 CARGO FROM TRUX	PE0207
190	CK	CCC(26,13)		NUMBER OF CRANES OF TYPE CCG(25,13) USED TO UNLOAD TYPEX	PE0207
191		CCC(27,13)		NUMBER OF UNITS/HOUR OF TYPE 13 CARGO THAT CRANE TYPE CX	PE0207
192		CCC(28,13)		SPEED OF UNLOADED TRUCK AFTER UNLOADING TYPE 13 CARGO	PE0207
193		CCC(29,13)		TYPE OF 9SA CRANE USED TO UNLOAD CARGO TYPE 13 FROM TRUX	PE0207
194		CCC(30,13)		NUMBER OF CRANES OF TYPE CCG(29,13) USED TO UNLOAD TYPEX	PE0207
195		CCC(31,13)		NUMBER OF UNITS/HOUR OF TYPE 13 CARGO THAT CRANE TYPE CX	PE0207
196		CCC(32,11)		DELAY TIME (IN MINUTES) FOR CONSTRUCTION EQUIPMENT IN RX	PE0504
197		CCC(32,12)		DELAY TIME (IN MINUTES) FOR CONSTRUCTION EQUIPMENT IN AX	PE0504
198		CCC(32,7)		DELAY TIME (IN MINUTES) BEFORE STARTING PERMANENT MSR COX	PE0819
199		CCC(20,9)		DELAY TIME (IN MINUTES) BEFORE STARTING LSA CONSTRUCTION	PE0819
200		CCC(20,10)		DELAY TIME (IN MINUTES) BEFORE STARTING ASP CONSTRUCTION	PE0819
201		CCC(49,1)		SPEED (IN FEET/MINUTE) OF A TRUCK CARRYING CARGO X	PE0216
202		CCC(49,1)		SPEED (IN FEET/MINUTE) OF A TRUCK CARRYING CARGO X	PE0216
203		CCC(49,1)		SPEED (IN FEET/MINUTE) OF A TRUCK CARRYING CARGO X	PE0216
204		CCC(49,1)		SPEED (IN FEET/MINUTE) OF A TRUCK CARRYING CARGO X	PE0216
205		CCC(49,1)		SPEED (IN FEET/MINUTE) OF A TRUCK CARRYING CARGO X	PE0216
206		CCC(49,1)		SPEED (IN FEET/MINUTE) OF A TRUCK CARRYING CARGO X	PE0216
207		CCC(49,1)		SPEED (IN FEET/MINUTE) OF A TRUCK CARRYING CARGO X	PE0216
208		CCC(49,1)		SPEED (IN FEET/MINUTE) OF A TRUCK CARRYING CARGO X	PE0216
209		CCC(49,1)		SPEED (IN FEET/MINUTE) OF A TRUCK CARRYING CARGO X	PE0216
210		CCC(49,1)		SPEED (IN FEET/MINUTE) OF A TRUCK CARRYING CARGO X	PE0216
211		CCC(49,1)		SPEED (IN FEET/MINUTE) OF A TRUCK CARRYING CARGO X	PE0216
212		CCC(49,1)		SPEED (IN FEET/MINUTE) OF A TRUCK CARRYING CARGO X	PE0216
213		CCC(49,1)		SPEED (IN FEET/MINUTE) OF A TRUCK CARRYING CARGO X	PE0216
214		CCC(49,1)		SPEED (IN FEET/MINUTE) OF A TRUCK CARRYING CARGO X	PE0216
215		CCC(49,1)		SPEED (IN FEET/MINUTE) OF A TRUCK CARRYING CARGO X	PE0216
216		CCC(49,1)		SPEED (IN FEET/MINUTE) OF A TRUCK CARRYING CARGO X	PE0216
217		CCC(49,1)		SPEED (IN FEET/MINUTE) OF A TRUCK CARRYING CARGO X	PE0216
218		CCC(49,1)		SPEED (IN FEET/MINUTE) OF A TRUCK CARRYING CARGO X	PE0216
219		CCC(49,1)		SPEED (IN FEET/MINUTE) OF A TRUCK CARRYING CARGO X	PE0216
220		CCC(49,1)		SPEED (IN FEET/MINUTE) OF A TRUCK CARRYING CARGO X	PE0216
221		CCC(49,1)		SPEED (IN FEET/MINUTE) OF A TRUCK CARRYING CARGO X	PE0216
222		CCC(49,1)		SPEED (IN FEET/MINUTE) OF A TRUCK CARRYING CARGO X	PE0216
223		CCC(49,1)		SPEED (IN FEET/MINUTE) OF A TRUCK CARRYING CARGO X	PE0216
224		CCC(49,1)		SPEED (IN FEET/MINUTE) OF A TRUCK CARRYING CARGO X	PE0216
225		CCC(49,1)		SPEED (IN FEET/MINUTE) OF A TRUCK CARRYING CARGO X	PE0216
226		CCC(49,1)		SPEED (IN FEET/MINUTE) OF A TRUCK CARRYING CARGO X	PE0216
227		CCC(49,1)		SPEED (IN FEET/MINUTE) OF A TRUCK CARRYING CARGO X	PE0216
228		CCC(49,1)		SPEED (IN FEET/MINUTE) OF A TRUCK CARRYING CARGO X	PE0216
229		CCC(49,1)		SPEED (IN FEET/MINUTE) OF A TRUCK CARRYING CARGO X	PE0216
230		CCC(49,1)		SPEED (IN FEET/MINUTE) OF A TRUCK CARRYING CARGO X	PE0216
231		CCC(49,1)		SPEED (IN FEET/MINUTE) OF A TRUCK CARRYING CARGO X	PE0216
232		CCC(49,1)		SPEED (IN FEET/MINUTE) OF A TRUCK CARRYING CARGO X	PE0216
233		CCC(49,1)		SPEED (IN FEET/MINUTE) OF A TRUCK CARRYING CARGO X	PE0216
234		CCC(49,1)		SPEED (IN FEET/MINUTE) OF A TRUCK CARRYING CARGO X	PE0216
235		CCC(49,1)		SPEED (IN FEET/MINUTE) OF A TRUCK CARRYING CARGO X	PE0216
236		CCC(49,1)		SPEED (IN FEET/MINUTE) OF A TRUCK CARRYING CARGO X	PE0216

APPENDIX B
OUTPUT FROM PROGRAM

W S R D C GPSS V/6000

CRM GPSS V/6000 VER. 1.2 PSR 412

04/25/79 14.41.59.

DAVID TAYLOR NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER
COMPUTATION, MATHEMATICS AND LOGISTICS DEPARTMENT

LOGISTICS DIVISION

BETHESDA, MARYLAND 20804

AMPHIBIOUS LOGISTICS SUPPORT ASHORE (ALSA) ANALYSIS

CASE NUMBER 10
MISSION DURATION = 20.0 DAYS
DELAY TIME (BSA) = 2.0 HOURS
DELAY TIME (NON-BSA) = 6.0 HOURS
DISTANCE BETWEEN BSA AND LSA = 1.9 MILES
DISTANCE BETWEEN BEACH AND ASP 1 = 3.8 MILES
DISTANCE BETWEEN BEACH AND ASP 2 = 5.0 MILES
DISTANCE BETWEEN BEACH AND ASP 3 = 6.7 MILES
DISTANCE BETWEEN BEACH AND ASP 4 = 5.5 MILES

*
* OUTPUT SECTION *
*

PSA CARGO DELIVERY

CONTAINERS

AMMO (PALLETS)

GENERAL CARGO (PALLETS)

TIME (HOURS)

HALFWORD MATRIX GGG

INERS

ROW/COLUMN	1	2	3	4	5
1	24	0	0	0	0
2	48	1740	650	650	0
3	72	1740	1400	1400	0
4	96	1740	2100	2100	0
5	120	1740	2850	2850	0
6	144	1740	3550	3550	460
7	168	1740	4250	4250	940
8	192	1740	5000	5000	1420
9	216	1740	5700	5700	1900
10	240	1740	6450	6450	2380
11	264	1740	7150	6850	2860
12	288	1740	7700	6850	3340
13	312	1740	7700	6850	3820
14	336	1740	7700	6850	4300
15	360	1740	7700	6850	4780
16	384	1740	7700	6850	5260
17	408	1740	7700	6850	5740
18	432	1740	7700	6850	6220
19	456	1740	7700	6850	6700
20	0	0	0	0	0
21	0	0	0	0	0
22	0	0	0	0	0
23	0	0	0	0	0
24	0	0	0	0	0
25	0	0	0	0	0
26	0	0	0	0	0
27	0	0	0	0	0
28	0	0	0	0	0
29	0	0	0	0	0
30	0	0	0	0	0
31	0	0	0	0	0
32	0	0	0	0	0
33	0	0	0	0	0
34	0	0	0	0	0
35	0	0	0	0	0
36	0	0	0	0	0
37	0	0	0	0	0
38	0	0	0	0	0

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CRM GPSS V/6000

VER. 1.2 PSR 412

04/25/79

W S D C GPSS V/6000
HALFWORD MATRIX CCG

ROW/COLUMN	1	2	3	4	5
39	0	0	0	0	0
40	0	0	0	0	0
41	0	0	0	0	0
42	0	0	0	0	0
43	0	0	0	0	0
44	0	0	0	0	0
45	0	0	0	0	0
46	0	0	0	0	0
47	0	0	0	0	0
48	0	0	0	0	0
49	0	0	0	0	0
50	0	0	0	0	0

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TIME
(HOURS)

1 NW 703/MD8 POW/COLUMN

115

N S R D C GPSS V/6000		CRM GPSS V/6000		VER. 1.2 PSR 412		04/25/79 14.42.01.	
WALFORD MATRIX HH							
ROW/COLUMN	1	2	3	4	5	6	
48	0	0	0	0	0	0	
49	0	0	0	0	0	0	
50	0	0	0	0	0	0	

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VER. 1.2 PSR 412

CRM GPSS V/6000

ASP AMC DELIVERY

W S R D C GPSS V/6000

CONTAINERS
PALLETS
MERED
NON-WHEELED

TIME
(HOURS)

HALFWORD MATRIX LLL

PWM/COL/MN	1	2	3
1	24	0	0
2	48	0	0
3	72	0	0
4	96	0	0
5	120	0	0
6	144	0	0
7	168	0	0
8	192	0	0
9	216	0	0
10	240	0	0
11	264	0	0
12	288	0	0
13	312	0	0
14	336	0	0
15	360	0	0
16	384	0	0
17	408	0	0
18	432	0	0
19	456	0	0
20	0	0	0
21	0	0	0
22	0	0	0
23	0	0	0
24	0	0	0
25	0	0	0
26	0	0	0
27	0	0	0
28	0	0	0
29	0	0	0
30	0	0	0
31	0	0	0
32	0	0	0
33	0	0	0
34	0	0	0
35	0	0	0
36	0	0	0
37	0	0	0
38	0	0	0
39	0	0	0
40	0	0	0
41	0	0	0
42	0	0	0
43	0	0	0
44	0	0	0
45	0	0	0
46	0	0	0
47	0	0	0
48	0	0	0
49	0	0	0

N S R O C GPSS V/6000 CPM GPSS V/6000 VER. 1.2 PSR 412 04/25/79 14-42-01.
 HALFWORD MATRIX LLL
 ROW/COLUMN 1 2 3
 59 0 0 0

	COMPLETION TIME (DAYS)	CONSTRUCTION TIME (DAYS)
MSA ROADS	1.73	1.31
MSA DUMP 1	1.03	0.61
MSA DUMP 2	0.53	0.11
MSA DUMP 3	0.54	0.12
MSA DUMP 4	0.50	0.68
MSA TOTAL		2.24
MSR TEMPORARY ROUTE 1	1.16	0.57
MSR TEMPORARY ROUTE 2	0.96	0.38
MSR TEMPORARY ROUTE 3	1.05	0.47
MSR TEMPORARY ROUTE 4	1.16	0.58
MSP PERMANENT ROUTE 1	0.00	0.57
MSP PERMANENT ROUTE 2	0.00	0.38
MSP PERMANENT ROUTE 3	4.39	2.79
MSP PERMANENT ROUTE 4	0.00	0.58
PERMANENT MSR TOTAL		4.32
LSA STORAGE AREA 1	3.62	2.20
LSA STORAGE AREA 2	4.18	2.76
LSA STORAGE AREA 3	0.00	0.00
LSA UNSTUFFING AREA	2.96	1.54
LSA TRUCK LOADING AREA	2.44	1.03
LSA PALLET STAGING AREA	1.92	0.51
LSA ADMINISTRATIVE AREA	3.30	1.69
LSA TOTAL		9.94
ASP ROAD A1	0.00	0.00
ASP ROAD A2	0.00	0.00
ASP ROAD A3	0.00	0.00
ASP ROAD A4	0.00	0.00
ASP REVETMENT A1	2.89	1.47
ASP REVETMENT A2	2.92	1.38
ASP REVETMENT A3	3.00	1.43
ASP REVETMENT A4	3.05	1.47
ASP PERIMETER	1.01	0.23
ASP TOTAL		5.98
ANFS1	2.85	1.44
ANFS2	2.85	1.44
ANFS3	2.97	1.56
ANFS4	2.97	1.56
ANFS TOTAL		5.99
ALSA TOTAL		26.46

EQUIPMENT DEFINITIONS (STORAGES) ARE AS FOLLOWS

SCPR = SCRAPERS
 SLOP = SCOOP LOADERS
 NTRK = RUMP TRUCKS
 ALLR = ROLLERS
 GDRP = GRADERS
 SFDP = SURFACERS
 AKMO = RACKHOES
 CRNE = CRANES AT AFS
 RULL = PULLDOZERS
 TNGE = TOWING EQUIPMENT
 FKLA = BEACH FORKLIFT FOR GENERAL CARGO
 FKLP = BEACH FORKLIFT FOR POL
 FKLD = BSA FORKLIFT FOR AMMO
 FKLE = BSA FORKLIFT FOR POL
 FKLF = BSA FORKLIFT FOR AMMO
 FKLG = LSA FORKLIFT FOR GENERAL CARGO

FKLN = LSA FORKLIFT FOR POL
 FKJ = ASP 1 FORKLIFT FOR AMMO
 CNLA = BEACH CONTAINER LIFT
 CNLB = BSA CONTAINER LIFT
 UNSA = BSA UNSTUFFING EQUIPMENT
 CNLC = LSA CONTAINER LIFT
 UNSB = LSA UNSTUFFING EQUIPMENT
 CNLD = ASP CONTAINER LIFT
 UNSC = ASP UNSTUFFING EQUIPMENT
 CRNA = CRANES AT BEACH
 CRNB = CRANES AT BSA
 CRNC = CRANES AT LSA
 FKLL = ASP 2 FORKLIFT FOR AMMO
 FKLM = ASP 3 FORKLIFT FOR AMMO
 FKLN = ASP 4 FORKLIFT FOR AMMO
 TRKB = FLAT BED TRUCKS FOR BREAK BULK CARGO
 TRKC = FLAT BED TRUCKS FOR CONTAINERIZED CARGO

EQUIPMENT UTILIZATION

EQUIPMENT	NUMBER AVAILABLE	CAPACITY	TOTAL NUMBER OF TIMES USED	AVERAGE TIME USED	MAXIMUM NUMBER USED
SCPR	13		79	338.342	13
SLOP	4		14	147.714	4
NTRK	100		20	245.650	13
ALLR	4		19	257.368	4
GDRP	11		46	258.761	10
SFDP	5		9	757.089	4
AKMO	50		111	343.459	50
CRNE	12		50	66.097	12
RULL	2		308	86.636	2
TNGE	2		274	93.866	2
FKLA	12		50	120.000	12
FKLP	2		308	100.000	2
FKLD	2		274	100.000	2
FKLE	2		720	60.000	2
FKLF	2		710	60.000	2
CNLA	20		320	890.625	20
TRKB	20		720	119.833	4
TRKC					

QUEUES OF EQUIPMENT REQUESTS

QUEUE NAME	EQUIPMENT REQUESTED	QUEUE NAME	EQUIPMENT REQUESTED
BSBUL	BULLDOZER AT BSA	TMGE	TONING EQUIPMENT
ASSCP	SCRAPER AT BSA	FKL9	BEACH FORKLIFT FOR GENERAL CARGO
ASSLN	SCOMP LOADER AT BSA	FKLC	BEACH FORKLIFT FOR POL
ASDTR	PUMP TRUCK AT BSA	FKLD	BEACH FORKLIFT FOR AMMO
ASPLL	ROLLER AT BSA	FKLE	BSA FORKLIFT FOR GENERAL CARGO
ASGRN	GRADEP AT BSA	FKLF	BSA FORKLIFT FOR POL
BSBUL	BULLDOZER AT MSQ	FSTRK	BSA FORKLIFT FOR AMMO
MSPLL	ROLLER AT MSQ	FKLG	FLAT BED TRUCK FOR OUTSIZED CARGO
MSGRN	GRADEP AT MSQ	FKLH	LSA FORKLIFT FOR GENERAL CARGO
MSSCP	SCRAPER AT MSQ	FKLJ	ASP 1 FORKLIFT FOR AMMO
MSSFC	SURFACEP AT MSQ	CMLA	BEACH CONTAINER LIFT
LSFUL	PULLDOZER AT LSA	CMLB	BSA CONTAINER LIFT
LSOFR	SCRAPPR AT LSA	UNSA	BSA UNSTUFFING EQUIPMENT
LSPLL	PUMP TRUCK AT LSA	CMLC	LSA CONTAINER LIFT
LSGRN	ROLLER AT LSA	UNSB	LSA UNSTUFFING EQUIPMENT
LSOFC	GRADEP AT LSA	CMLD	ASP CONTAINER LIFT
ASBUL	BULLDOZER AT ASP	UNSC	ASP UNSTUFFING EQUIPMENT
ASSCP	SCRAPER AT ASP	CRMA	CRANE AT BEACH
ASSLD	SCOMP LOADER AT ASP	CRNB	CRANE AT BSA
ASGRN	GRADEP AT ASP	CRMC	CRANE AT LSA
ASPLL	POLLER AT ASP	FKLK	ASP 2 FORKLIFT FOR AMMO
ASFUL	BULLDOZER AT AAFS	FKLL	ASP 3 FORKLIFT FOR AMMO
ASGRN	GRADEP AT AAFS	FKLM	ASP 4 FORKLIFT FOR AMMO
AASCP	SCRAPER AT AAFS	TRK9	FLAT BED TRUCK FOR BREAK BULK CARGO
AASLD	SCOMP LOADER AT AAFS	TRKC	FLAT BED TRUCK FOR CONTAINERIZED CARGO
CONF	CRANE AT AAFS		

EQUIPMENT REQUESTED	MAXIMUM NO. OF REQUESTS IN QUEUE	TOTAL NO. OF REQUESTS	NO. OF REQUESTS WITH NO WAITING	AVERAGE WAIT IN QUEUE (MINUTES)
BSBUL	1	5	5	0.000
ASSCP	1	2	2	0.000
ASSLN	1	1	1	0.000
ASDTR	1	2	2	0.000
ASPLL	1	2	2	0.000
ASGRN	1	1	1	0.000
MSBUL	1	4	4	0.000
MSSCP	4	4	0	1109.000
FKLA	1	29	29	0.000
FKLB	1	154	1	49.935
FKLC	1	137	1	49.890
FKLD	9	29	6	116.957
FKLE	18	154	1	887.451
FKLF	10	137	1	637.868
CMLA	3	722	2	87.260
CMLB	1	718	718	0.000

M S R O C GPSS V/6000
 QUIRUF MAXIMUM
 CONTENTS

TRMC	3	320	72	45.589
TRMC	1	720	720	0.000
MSRLL	3	4	1	35673.503
MSCPN	1	1	1	0.000
LSRUL	1	7	7	0.000
LSSCP	1	5	3	90.000
LSOTR	1	6	6	0.000
LSWLL	2	6	4	25603.000
LSSCP	1	6	6	0.000
LSSFC	1	3	2	685.000
ASRUL	6	9	3	213.000
ASSCP	8	8	0	390.750
ASSLN	2	4	2	195.500
ASCPN	1	4	3	58.000
ASWLL	4	4	0	34700.000
ABMIL	1	4	4	0.000
AAGPN	2	8	6	185.000
AASCP	1	4	4	0.000
APSLN	2	4	0	72.500

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 *
 * INPUT SECTION *
 *

SUPPLY MATRIX

MAF CARGO REQUIREMENTS

THERE ARE TWELVE DIFFERENT TYPES OF CARGO

- 1 = BREAK BULK, GENERAL CARGO
 2 = BREAK BULK, POL
 3 = BREAK BULK, AMMO
 4 = CONTAINERIZED GENERAL CARGO, TO BE UNSTUFFED
 5 = CONTAINERIZED AMMO, TO BE UNSTUFFED
 6 = CONTAINERIZED DRUM POL, TO BE UNSTUFFED
 7 = CONTAINERIZED GENERAL CARGO, NOT TO BE UNSTUFFED
 8 = CONTAINERIZED AMMO, NOT TO BE UNSTUFFED
 9 = CONTAINERIZED DRUM POL, NOT TO BE UNSTUFFED
 10 = SQUARE, SELF POWERED VEHICLES, ON WHEELS
 11 = SQUARE, NON-POWERED VEHICLES, ON WHEELS
 13 = OUTSIZED CARGO

ASSAULT ECHELON INITIAL SUPPLY

CARGO TYPE	TIME DELIVERY STARTS (DAYS)	NUMBER OF LIGHTER DELIVERIES	DELIVERY INTERVAL (MINUTES)	NUMBER OF UNITS PER LIGHTER
1	1.0	29	10	60
2	1.0	154	10	50
3	1.0	137	15	50
4	0.0	0	0	0
5	0.0	0	0	0
6	0.0	0	0	0
7	0.0	0	0	0
8	0.0	0	0	0
9	0.0	0	0	0

N S P D C GPSS V/6000

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ASSAULT FOLLOW-ON ECHELON INITIAL SUPPLY

CARGO TYPE	TIME DELIVERY STARTS (DAYS)	NUMBER OF LIGHTER DELIVERIES	DELIVERY INTERVAL (MINUTES)	NUMBER OF UNITS PER LIGHTER
1	0.0	0	0	0
2	0.0	0	0	0
3	0.0	0	0	0
4	0.0	0	0	0
5	0.0	0	0	0
6	0.0	0	0	0
7	5.0	256	30	12
8	5.0	176	30	10
9	5.0	236	30	10

FORCE RESUPPLY FOR MISSION DURATION

CARGO TYPE	TIME DELIVERY STARTS (DAYS)	NUMBER OF LIGHTER DELIVERIES	DELIVERY INTERVAL (MINUTES)	NUMBER OF UNITS PER LIGHTER
1	0.0	0	0	0
2	0.0	0	0	0
3	0.0	0	0	0
4	0.0	0	0	0
5	0.0	0	0	0
6	0.0	0	0	0
7	15.0	250	120	12
8	15.0	203	160	10
9	15.0	327	100	10
10	15.0	45	440	0
11	0.0	0	0	0
12	0.0	0	0	0

DESCRIPTION OF CONSTRUCTION OPERATIONS

THE TABLE BELOW LISTS THE CONSTRUCTION OPERATIONS THAT ARE SIMULATED. THE DATA DESCRIBING THESE OPERATIONS IS LISTED IN MATRIX AAA WHICH FOLLOWS THIS TABLE.

P DENOTES THE PRIORITY OF THE OPERATION
R DENOTES THE ROW NUMBER OF MATRIX AAA

P=1, R=2	CLEAR PSA ROADS	BULLDOZER	
P=2, R=3	CLEAR DUMP 1 (PSA)	BULLDOZER	
P=3, R=4	CLEAR DUMP 2 (PSA)	BULLDOZER	
P=4, R=5	CLEAR DUMP 3 (PSA)	BULLDOZER	
P=5, R=6	CLEAR DUMP 4 (PSA)	BULLDOZER	
P=2, R=7	DEPOSIT MATERIAL FOR HERMS AT DUMP 1 (PSA)		
P=2, R=8	GIVE FATH AND SHAPE BERMS FOR DUMP 1 (BSA)		
P=1, R=9	STRIP PSA ROADS	SCRAPER	SCRAPER LOADER
P=1, R=10	FILL (SURFACE) BSA ROADS	DUMP TRUCK	
P=1, R=11	COMPACT (SURFACE) BSA ROADS	ROLLER	
P=1, R=12	GRADE BSA ROADS	GRADER	
P=1, R=13	FILL (SURFACE) BSA ROADS	DUMP TRUCK	
P=1, R=14	COMPACT (SURFACE) BSA ROADS	ROLLER	
P=6, R=15	CLEAR TEMPORARY MSR 1	BULLDOZER	
P=7, R=17	CLEAR TEMPORARY MSR 2	BULLDOZER	
P=8, R=18	CLEAR TEMPORARY MSR 3	BULLDOZER	
P=9, R=19	CLEAR TEMPORARY MSR 4	BULLDOZER	
P=11, R=20	STRIP PERMANENT MSR 1	SCRAPER	
P=11, R=20	STRIP PERMANENT MSR 2	SCRAPER	
P=12, R=20	STRIP PERMANENT MSR 3	SCRAPER	
P=33, R=31	STRIP PERMANENT MSR 4	SCRAPER	
P=30, R=32	COMPACT PERMANENT MSR 1	ROLLER	
P=11, R=33	COMPACT PERMANENT MSR 2	ROLLER	
P=32, R=34	COMPACT PERMANENT MSR 3	ROLLER	
P=33, R=35	COMPACT PERMANENT MSR 4	ROLLER	
P=30, R=36	GRADE PERMANENT MSR 1	GRADER	
P=31, R=37	GRADE PERMANENT MSR 2	GRADER	
P=32, R=38	GRADE PERMANENT MSR 3	GRADER	
P=33, R=39	GRADE PERMANENT MSR 4	GRADER	
P=30, R=40	SURFACE PERMANENT MSR 1	SURFACER	
P=31, R=41	SURFACE PERMANENT MSR 2	SURFACER	
P=1, R=42	CLEAR STORAGE AREA 1 (LSA)	BULLDOZER	
P=15, R=43	CLEAR STORAGE AREA 2 (LSA)	BULLDOZER	
P=16, R=44	CLEAR STORAGE AREA 3 (LSA)	BULLDOZER	
P=17, R=45	CLEAR UNSTUFFING AREA (LSA)	BULLDOZER	
P=1, R=46	CLEAR TRUCK LOADING AREA (LSA)	BULLDOZER	
P=10, R=47	CLEAR PALLET STAGING AREA (LSA)	BULLDOZER	
P=21, R=48	CLEAR ADMINISTRATIVE AREA (LSA)	BULLDOZER	
P=14, R=49	STRIP STORAGE AREA 1 (LSA)	SCRAPER	
P=15, R=50	STRIP STORAGE AREA 2 (LSA)	SCRAPER	
P=16, R=51	STRIP STORAGE AREA 3 (LSA)	SCRAPER	
P=17, R=52	STRIP UNSTUFFING AREA (LSA)	SCRAPER	
P=20, R=53	STRIP ADMINISTRATIVE AREA (LSA)	SCRAPER	
P=14, R=54	FILL STORAGE AREA 1 (LSA)	DUMP TRUCK	
P=14, R=55	FILL STORAGE AREA 2 (LSA)	DUMP TRUCK	

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P=16, R=54	FILL STORAGE AREA 3 (LSA)	DUMP TRUCK	
P=17, R=57	FILL UNSTUFFING AREA (LSA)	DUMP TRUCK	
P=18, R=58	FILL TRUCK LOADING AREA (LSA)	DUMP TRUCK	
P=20, R=59	FILL ADMINISTRATIVE AREA (LSA)	DUMP TRUCK	
P=14, R=60	COMPACT STORAGE AREA 1 (LSA)	ROLLER	
P=15, R=61	COMPACT STORAGE AREA 2 (LSA)	ROLLER	
P=16, R=62	COMPACT STORAGE AREA 3 (LSA)	ROLLER	
P=17, R=63	COMPACT UNSTUFFING AREA (LSA)	ROLLER	
P=18, R=64	COMPACT TRUCK LOADING AREA (LSA)	ROLLER	
P=20, R=65	COMPACT ADMINISTRATIVE AREA (LSA)	ROLLER	
P=14, R=66	GRADE STORAGE AREA 1 (LSA)	GRADER	
P=15, R=67	GRADE STORAGE AREA 2 (LSA)	GRADER	
P=16, R=68	GRADE STORAGE AREA 3 (LSA)	GRADER	
P=17, R=69	GRADE UNSTUFFING AREA (LSA)	GRADER	
P=18, R=70	GRADE TRUCK LOADING AREA (LSA)	GRADER	
P=19, R=71	GRADE PALLET STAGING AREA (LSA)	GRADER	
P=20, R=72	GRADE ADMINISTRATIVE AREA (LSA)	GRADER	
P=14, R=73	SURFACE STORAGE AREA 1 (LSA)	SURFACER	
P=15, R=74	SURFACE STORAGE AREA 2 (LSA)	SURFACER	
P=16, R=75	SURFACE STORAGE AREA 3 (LSA)	SURFACER	
P=17, R=76	SURFACE UNSTUFFING AREA (LSA)	SURFACER	
P=21, R=77	CLEAR ROAD A1 (ASP)	BULLDOZER	
P=22, R=78	CLEAR ROAD A2 (ASP)	BULLDOZER	
P=23, R=79	CLEAR ROAD A3 (ASP)	BULLDOZER	
P=24, R=80	CLEAR ROAD A4 (ASP)	BULLDOZER	
P=25, R=81	CLEAR REVETMENT A1 (ASP)	BULLDOZER	
P=26, R=82	CLEAR REVETMENT A2 (ASP)	BULLDOZER	
P=27, R=83	CLEAR REVETMENT A3 (ASP)	BULLDOZER	
P=28, R=84	CLEAR REVETMENT A4 (ASP)	BULLDOZER	
P=29, R=85	CLEAR PERIMETER (ASP)	BULLDOZER	
P=25, R=86	DEPOSIT MATERIAL FOR BERMS ON REVETMENT A1 (ASP)	SCRAPER	
P=26, R=87	DEPOSIT MATERIAL FOR BERMS ON REVETMENT A2 (ASP)	SCRAPER	
P=27, R=88	DEPOSIT MATERIAL FOR BERMS ON REVETMENT A3 (ASP)	SCRAPER	
P=28, R=89	DEPOSIT MATERIAL FOR BERMS ON REVETMENT A4 (ASP)	SCRAPER	
P=29, R=90	PILE EARTH AT BERMS FOR REVETMENT A1 (ASP)	SCOOP LOADER	
P=26, R=91	PILE EARTH AT BERMS FOR REVETMENT A2 (ASP)	SCOOP LOADER	
P=27, R=92	PILE EARTH AT BERMS FOR REVETMENT A3 (ASP)	SCOOP LOADER	
P=28, R=93	PILE EARTH AT BERMS FOR REVETMENT A4 (ASP)	SCOOP LOADER	
P=25, R=94	SHAPE BERMS FOR REVETMENT A1 (ASP)	GRADER	
P=26, R=95	SHAPE BERMS FOR REVETMENT A2 (ASP)	GRADER	
P=27, R=96	SHAPE BERMS FOR REVETMENT A3 (ASP)	GRADER	
P=28, R=97	SHAPE BERMS FOR REVETMENT A4 (ASP)	GRADER	
P=21, R=98	COMPACT ROAD A1 (ASP)	ROLLER	
P=22, R=99	COMPACT ROAD A2 (ASP)	ROLLER	
P=23, R=100	COMPACT ROAD A3 (ASP)	ROLLER	
P=24, R=101	COMPACT ROAD A4 (ASP)	ROLLER	
P=21, R=102	GRADE ROAD A1 (ASP)	GRADER	
P=22, R=103	GRADE ROAD A2 (ASP)	GRADER	
P=23, R=104	GRADE ROAD A3 (ASP)	GRADER	
P=24, R=105	GRADE ROAD A4 (ASP)	GRADER	
P=21, R=106	STRIP ROAD A1 (ASP)	SCRAPER	
P=22, R=107	STRIP ROAD A2 (ASP)	SCRAPER	
P=23, R=108	STRIP ROAD A3 (ASP)	SCRAPER	
P=24, R=109	STRIP ROAD A4 (ASP)	SCRAPER	
P=10, R=110	CLEAR AAFS1	BULLDOZER	
P=11, R=111	CLEAR AAFS2	BULLDOZER	
P=12, R=112	CLEAR AAFS3	BULLDOZER	
P=13, R=113	CLEAR AAFS4	BULLDOZER	
P=10, R=114	GRADE AAFS1	GRADER	

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GRADE AAFS2 GRADER
 GRADE AAFS3 GRADER
 GRADE AAFS4 GRADER
 DEPOSIT BERM MATERIAL FOR BERM 1 SCRAPER
 DEPOSIT BERM MATERIAL FOR BERM 2 SCRAPER
 DEPOSIT BERM MATERIAL FOR BERM 3 SCRAPER
 DEPOSIT BERM MATERIAL FOR BERM 4 SCRAPER
 PILE EARTH AT BERM 1 SCOOP LOADER
 PILE EARTH AT BERM 2 SCOOP LOADER
 PILE EARTH AT BERM 3 SCOOP LOADER
 PILE EARTH AT BERM 4 SCOOP LOADER
 SHAPE BERM 1 GRADER
 SHAPE BERM 2 GRADER
 SHAPE BERM 3 GRADER
 SHAPE BERM 4 GRADER

P=11, R=115
 P=12, R=116
 P=13, R=117
 P=10, R=118
 P=11, R=119
 P=12, R=120
 P=13, R=121
 P=18, R=122
 P=11, R=123
 P=12, R=124
 P=13, R=125
 P=18, R=126
 P=11, R=127
 P=12, R=128
 P=13, R=129

CONSTRUCTION INPUT MATRIX AAA

SQUARE FEET	RATE (SQ FT/MIN)	NUMBER OF EQUIPMENT PERFORMING OPERATION
1	2	3

MG OPERATION

FULLWORD MATRIX AAA

ROW/COLUMN

1	0		
2	100000	0	
3	137000	300	0
4	98000	300	3
5	154000	300	3
6	34000	300	2
7	137000	260	1
8	137000	300	2
9	100000	350	2
10	100000	200	2
11	100000	400	2
12	100000	300	2
13	100000	200	2
14	100000	400	2
15	0	0	0
16	1900000	300	0
17	650000	300	0
18	1210000	300	4
19	1000000	300	6
20	0	0	0
21	0	0	0
22	0	0	0
23	0	0	0
24	0	0	0
25	0	0	0
26	0	0	0
27	0	0	0
28	1900000	350	0
29	650000	350	6

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FULLWAVE MATRIX AAA

PCW/COLUMN		1	2	3
70	1210200	350	4	3
31	1000000	350		4
72	1900000	400		6
73	650000	400		8
34	1210000	400		6
35	1000000	400		4
36	1900000	300		6
77	650000	300		6
78	1210000	300		4
39	1000000	300		6
40	1900000	100		8
41	650000	100		6
42	193700	200		4
43	193700	200		4
44	236600	200		5
45	219004	200		1
46	60800	200		1
47	37350	200		1
48	76800	200		1
49	193700	150		4
50	193700	150		4
51	236600	150		5
52	219004	150		1
53	76800	150		1
54	193700	200		4
55	193700	200		4
56	236600	200		5
57	219004	200		1
58	60800	200		1
59	76800	200		1
60	193700	400		4
61	193700	400		4
62	236600	400		5
63	219004	400		1
64	60800	400		1
65	76800	400		1
66	193700	200		4
67	193700	200		4
68	236600	200		5
69	219004	200		1
70	60800	200		1
71	37300	200		1
72	76800	200		1
73	193700	60		4
74	193700	60		4
75	236600	60		5
76	219004	60		1
77	517500	300		6
78	517500	300		6
79	517500	300		6
80	517500	300		6
81	370000	300		4
82	370000	300		4
83	370000	300		4
84	370000	300		4

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FULLWORD MATRIY AAA

ROW/COLUMN

	1	2	3
05	40000	300	4
06	13300	350	2
07	10300	350	2
08	10300	350	2
09	10300	350	2
10	10300	300	2
11	10300	300	2
12	10300	300	2
13	10300	300	2
14	10300	300	2
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121	10300	300	2
122	10300	300	2
123	10300	300	2
124	10300	300	2
125	10300	300	2
126	10300	300	2
127	10300	300	2
128	10300	300	2
129	10300	300	2
130	10300	300	2

CARGO HANDLING AND TRANSPORTATION DESCRIPTION

THE TABLE BELOW LISTS THE CARGO HANDLING AND TRANSPORTATION OPERATIONS THAT ARE SIMULATED AND THE CORRESPONDING ELEMENTS IN MATRIX CCC WHERE THE DATA DESCRIBING THESE OPERATIONS IS LOCATED

CCC(17,1), I=1-3	TYPE OF BEACH FORKLIFT USED TO LOAD CARGO TYPE I ONTO TRUCK (PAGE 2, NODES 46, 47)
CCC(18,1), I=1-3	NUMBER OF BEACH FORKLIFTS OF TYPE CCC(17,1) USED TO LOAD ONE TRUCK WITH CARGO TYPE I
CCC(19,1), I=1-3	NUMBER OF UNITS/HOUR OF CARGO TYPE I THAT FORKLIFT TYPE CCC(17,1) CAN TRANSFER FROM LIGHTER TO TRUCK
CCC(110,1), I=1-3	NUMBER OF UNITS OF CARGO TYPE I THAT ONE TRUCK CAN CARRY (PAGE 2, NODE 45)
CCC(111,1), I=1-3	SPEED (IN FEET/MINUTE) OF TRUCK CARRYING CARGO TYPE I FROM BEACH TO BSA (PAGE 2, NODES 50-51)
CCC(112,1), I=1-3	TYPE OF FORKLIFT USED AT BSA TO UNLOAD CARGO TYPE I FROM TRUCK (PAGE 2, NODES 52,53)
CCC(113,1), I=1-3	NUMBER OF PSA FORKLIFTS OF TYPE CCC(12,1) USED TO UNLOAD CARGO TYPE I FROM ONE TRUCK
CCC(114,1), I=1-3	NUMBER OF UNITS/HOUR OF CARGO TYPE I THAT FORKLIFT TYPE CCC(12,1) CAN UNLOAD FROM TRUCK
CCC(115,1), I=1-3	SPEED (IN FEET/MINUTE) OF TRUCK RETURNING TO BEACH FROM BSA AFTER DELIVERING CARGO TYPE I (PAGE 2, NODES 55-45)
CCC(116,1), I=1-3	NUMBER OF UNITS/HOUR OF CARGO TYPE I MOVED TO STORAGE BY FORKLIFT TYPE CCC(12,1) (PAGE 2, NODES 55-56)
CCC(117,1), I=1,2	SPEED (IN FEET/MINUTE) OF TRUCK CARRYING CARGO TYPE I FROM BEACH TO LSA (PAGE 2, NODES 50-57)
CCC(118,1), I=1,2	TYPE OF FORKLIFT USED AT LSA TO UNLOAD CARGO TYPE I FROM TRUCK (PAGE 2, NODES 58,59)
CCC(119,1), I=1,2	NUMBER OF LSA FORKLIFTS OF TYPE CCC(18,1) USED TO UNLOAD CARGO TYPE I FROM ONE TRUCK
CCC(120,1), I=1,2	NUMBER OF UNITS/HOUR OF CARGO TYPE I THAT FORKLIFT TYPE CCC(18,1) CAN UNLOAD FROM TRUCK
CCC(121,1), I=1,2	SPEED (IN FEET/MINUTE) OF TRUCK RETURNING TO BEACH FROM LSA AFTER DELIVERING CARGO TYPE I (PAGE 2, NODES 61-45)
CCC(122,1), I=1,2	NUMBER OF UNITS/HOUR OF CARGO TYPE I MOVED TO STORAGE BY FORKLIFT TYPE CCC(18,1) (PAGE 2, NODES 61-62)
CCC(143,1), I=1-4	SPEED OF TRUCK (IN FEET/MINUTE) CARRYING CARGO TYPE 3 BETWEEN SHORE AND ASP(I) (PAGE 2, NODES 50-50.1)
CCC(144,1), I=1-4	TYPE OF ASP FORKLIFT USED TO UNLOAD CARGO TYPE 3 AT ASP(I) (PAGE 2.1, NODES 62.2, 50.5, 51.3, 52.2)
CCC(145,1), I=1-4	NUMBER OF ASP FORKLIFTS OF TYPE CCC(44,1) USED TO UNLOAD CARGO TYPE 3 FROM ONE TRUCK
CCC(146,1), I=1-4	NUMBER OF PALLETS/HOUR OF CARGO TYPE 3 THAT FORKLIFT TYPE CCC(44,1) CAN UNLOAD FROM TRUCK
CCC(147,1), I=1-4	SPEED OF TRUCK (IN FEET/MINUTE) OF UNLOADED TRUCK RETURNING TO BEACH FROM ASP(I) (PAGE 2.1, NODES 62.4-45, 50.7-45, 51.5-45, 52.4-45)
CCC(148,1), I=1-4	NUMBER OF PALLETS/HOUR OF CARGO TYPE 3 THAT FORKLIFT TYPE CCC(44,1) CAN MOVE TO STORAGE (PAGE 2.1, NODES 62.4-62.5, 50.7-50.9, 51.5-51.6, 52.4-52.5)
CCC(149,1), I=4-9	NUMBER OF CONTAINERS PER LIGHTER OF CARGO TYPE I
CCC(17,1), I=4-9	TYPE OF CONTAINER LIFT USED TO UNLOAD LIGHTER AND LOAD TRUCK WITH CARGO TYPE I (PAGE 3, NODE 63)
CCC(18,1), I=4-9	NUMBER OF CONTAINER LIFTS OF TYPE CCC(17,1) USED TO LOAD ONE TRUCK WITH CARGO TYPE I
CCC(19,1), I=4-9	NUMBER OF CONTAINERS/HOUR OF CARGO TYPE I THAT CONTAINER LIFT TYPE CCC(17,1) CAN TRANSFER FROM LIGHTER TO TRUCK
CCC(110,1), I=4-9	NUMBER OF CONTAINERS OF CARGO TYPE I THAT A TRUCK CAN CARRY (PAGE 3, NODES 42,45)
CCC(111,1), I=4-9	SPEED (IN FEET/MINUTE) OF A TRUCK CARRYING CARGO TYPE I FROM BEACH TO BSA (PAGE 3, NODES 66-67)
CCC(112,1), I=4-9	TYPE OF PSA CONTAINER LIFT USED TO UNLOAD CARGO TYPE I FROM TRUCK (PAGE 3, NODE 68)
CCC(113,1), I=4-9	NUMBER OF CONTAINER LIFTS OF TYPE CCC(12,1) USED TO UNLOAD ONE TRUCK WITH CARGO TYPE I
CCC(114,1), I=4-9	NUMBER OF CONTAINERS/HOUR THAT CONTAINER LIFT TYPE CCC(12,1) CAN UNLOAD FROM TRUCK
CCC(115,1), I=4-9	SPEED (IN FEET/MINUTE) OF A TRUCK RETURNING TO BEACH FROM BSA AFTER DELIVERING CARGO TYPE I (PAGE 3, NODES 70-45)
CCC(116,1), I=4-6	TYPE OF UNSTUFFING EQUIPMENT USED TO UNSTUFF CARGO TYPE I (PAGE 3, NODE 73)
CCC(117,1), I=4-6	NUMBER OF UNITS OF UNSTUFFING EQUIPMENT TYPE CCC(16,1) USED TO UNSTUFF ONE CONTAINER OF CARGO TYPE I
CCC(118,1), I=4-6	NUMBER OF CONTAINERS/HOUR OF CARGO TYPE I THAT UNSTUFFING EQUIPMENT TYPE CCC(16,1) CAN UNSTUFF
CCC(119,1), I=4-6	TYPE OF BSA FORKLIFT USED TO MOVE AND STORE UNSTUFFED CARGO TYPE I (PAGE 3, NODES 52,53)
CCC(120,1), I=4-6	NUMBER OF FORKLIFTS OF TYPE CCC(19,1) USED TO MOVE AND STORE UNSTUFFED CARGO TYPE I

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 CCC(121,1), I=4-6 NUMBER OF UNITS/HOUR OF UNSTUFFED CARGO TYPE I THAT FORKLIFT TYPE CCC(19,1) CAN MOVE AND STORE
 CCC(122,1), I=4-6 TYPE OF PSA CONTAINER LIFT USED TO MOVE EMPTY CONTAINERS OF CARGO TYPE I TO SHORE
 (PAGE 3, NODE 60)
 CCC(123,1), I=4-6 NUMBER OF CONTAINER LIFTS OF TYPE CCC(22,1) USED TO MOVE ONE TRUCKLOAD OF EMPTY CONTAINERS
 CCC(124,1), I=4-6 NUMBER OF EMPTY CONTAINERS/HOUR OF CARGO TYPE I THAT CONTAINER LIFT TYPE CCC(22,1) CAN MOVE
 TO SHORE
 CCC(125,1), I=4-9 TYPE OF LSA/ASP CONTAINER LIFT USED TO UNLOAD CARGO TYPE I (PAGE 4, NODES 82,3, 96)
 CCC(126,1), I=4-9 NUMBER OF CONTAINER LIFTS OF TYPE CCC(25,1) USED TO UNLOAD ONE TRUCKLOAD OF CARGO TYPE I
 CCC(127,1), I=4-9 NUMBER OF CONTAINERS/HOUR OF CARGO TYPE I THAT CONTAINER LIFT TYPE CCC(25,1) CAN UNLOAD FROM TRUCK
 CCC(128,1), I=7-9 TIME (IN MINUTES) REQUIRED FOR CONTAINER LIFT TYPE CCC(25,1) TO STORE ONE CONTAINER OF CARGO TYPE I
 (PAGE 4, NODES 83-85, 99-104)
 CCC(129,1), I=7-9 SPEED (IN FEET/MINUTE) OF A TRUCK RETURNING TO BEACH FROM LSA/ASP AFTER DELIVERING CARGO TYPE I
 (PAGE 4, NODES 89-95, 113-45)
 CCC(130,1), I=4-6 TYPE OF LSA/ASP UNSTUFFING EQUIPMENT USED TO UNSTUFF CARGO TYPE I
 (PAGE 4, NODES 83,2, 101)
 CCC(131,1), I=4-6 NUMBER OF LSA/ASP UNSTUFFING EQUIPMENT OF TYPE CCC(30,1) USED TO UNSTUFF ONE TRUCKLOAD OF CARGO TYPE I
 CCC(132,1), I=4-6 NUMBER OF CONTAINERS/HOUR OF CARGO TYPE I THAT UNSTUFFING EQUIPMENT TYPE CCC(30,1) CAN UNSTUFF
 CCC(133,1), I=4-6 TYPE OF LSA/ASP FORKLIFT USED TO MOVE UNSTUFFED CARGO TYPE I TO DUMP AND STORE
 (PAGE 4, NODES 58, 59, 62,2)
 CCC(134,1), I=4-6 NUMBER OF FORKLIFTS OF TYPE CCC(33,1) USED TO MOVE THE CONTENTS OF ONE TRUCKLOAD OF CARGO TYPE I
 TO DUMP AND STORE
 CCC(135,1), I=4-6 NUMBER OF UNITS/HOUR OF UNSTUFFED CARGO TYPE I THAT FORKLIFT TYPE CCC(33,1) CAN MOVE TO DUMP AND STORE
 CCC(136,1), I=4-6 TYPE OF LSA/ASP CONTAINER LIFT USED TO LOAD EMPTY CONTAINER TYPE I ON TRUCK (PAGE 4, NODES 68, 96)
 CCC(137,1), I=4-6 NUMBER OF CONTAINER LIFTS OF TYPE CCC(36,1) USED TO LOAD EMPTY CONTAINERS TYPE I ON ONE TRUCK
 CCC(138,1), I=4-6 NUMBER OF EMPTY CONTAINERS/HOUR OF CARGO TYPE I CONTAINER LIFT TYPE CCC(36,1) CAN LOAD ON TRUCK
 CCC(139,1), I=4-6 SPEED (IN FEET/MINUTE) OF A TRUCK CARRYING EMPTY CONTAINERS TYPE I FROM LSA/ASP TO BSA
 (PAGE 4, NODES 90-98, 114-98)
 CCC(140,1), I=4-6 TYPE OF BSA CONTAINER LIFT USED TO UNLOAD EMPTY CONTAINER TYPE I FROM TRUCK (PAGE 4, NODE 68)
 CCC(141,1), I=4-6 NUMBER OF CONTAINER LIFTS OF TYPE CCC(40,1) USED TO UNLOAD EMPTY CONTAINER TYPE I FROM ONE TRUCK
 CCC(142,1), I=4-6 NUMBER OF EMPTY CONTAINERS/HOUR OF CARGO TYPE I THAT CONTAINER LIFT TYPE CCC(40,1) CAN UNLOAD FROM TRUCK
 CCC(143,1), I=10-11,13 UNLOADING RATE FROM LIGHTER (UNITS/HOUR) FOR CARGO TYPE 10 (PAGE 6, NODES 132-133)
 CCC(143,10) UNLOADING RATE FROM LIGHTER (UNITS/HOUR) FOR CARGO TYPE 10 (PAGE 6, NODES 132-133)
 CCC(143,11) UNLOADING RATE FROM LIGHTER (UNITS/HOUR) FOR CARGO TYPE 11 (PAGE 6, NODES 132-133)
 CCC(143,13) UNLOADING RATE FROM LIGHTER (UNITS/HOUR) FOR CARGO TYPE 13 (PAGE 6, NODES 132-133)
 CCC(144,1), I=4-6 DISTANCE (IN FEET) FROM LSA TO BSA
 CCC(145,1), I=4-6 DISTANCE (IN FEET) FROM BEACH TO LSA
 CCC(146,1), I=4-6 DISTANCE (IN FEET) FROM BEACH TO BSA
 CCC(147,1), I=4-6 DISTANCE (IN FEET) FROM BEACH TO ASP
 CCC(148,1), I=4-6 SPEED (FEET/MINUTE) OF TYPE 10 CARGO
 CCC(149,1), I=4-6 TYPE OF TONING EQUIPMENT USED TO TON TYPE 11 CARGO (PAGE 6, NODE 14)
 CCC(150,1), I=4-6 UNLOADING RATE (UNITS/HOUR) FOR TONING EQUIPMENT TYPE CCC(16,11) WHEN UNLOADING TYPE 11 CARGO
 CCC(151,1), I=4-6 SPEED (FEET/MINUTE) OF TONING EQUIPMENT TYPE CCC(16,11) WHEN TONING CARGO TYPE 11
 CCC(152,1), I=4-6 SPEED (FEET/MINUTE) OF TONING EQUIPMENT TYPE CCC(16,11) WHEN MOVING WITHOUT CARGO IN TON
 CCC(153,1), I=4-6 TYPE OF CRANE USED TO UNLOAD CARGO TYPE 13 FROM LIGHTER (PAGE 6, NODE 145)
 CCC(154,1), I=4-6 NUMBER OF CRANES TYPE CCC(20,13) USED TO UNLOAD TYPE 13 CARGO FROM LIGHTER
 CCC(155,1), I=4-6 NUMBER OF UNITS/HOUR OF TYPE 13 CARGO THAT CRANE TYPE CCC(20,13) CAN UNLOAD FROM LIGHTER
 CCC(156,1), I=4-6 NUMBER OF UNITS OF TYPE 13 CARGO THAT A FLAT BED TRUCK CAN CARRY
 CCC(157,1), I=4-6 SPEED (FEET/MINUTE) OF TRUCK WHEN LOADED WITH TYPE 13 CARGO
 CCC(158,1), I=4-6 TYPE OF LSA CRANE USED TO UNLOAD TYPE 13 CARGO FROM TRUCK
 CCC(159,1), I=4-6 NUMBER OF CRANES OF TYPE CCC(25,13) USED TO UNLOAD TYPE 13 CARGO FROM ONE TRUCK
 CCC(160,1), I=4-6 NUMBER OF UNITS/HOUR OF TYPE 13 CARGO THAT CRANE TYPE CCC(25,13) CAN UNLOAD FROM TRUCK
 CCC(161,1), I=4-6 SPEED OF UNLOADED TRUCK AFTER UNLOADING TYPE 13 CARGO
 CCC(162,1), I=4-6 TYPE OF BSA CRANE USED TO UNLOAD CARGO TYPE 13 FROM TRUCK (PAGE 6, NODE 150)
 CCC(163,1), I=4-6 NUMBER OF CRANES OF TYPE CCC(29,13) USED TO UNLOAD TYPE 13 CARGO FROM ONE TRUCK
 CCC(164,1), I=4-6 NUMBER OF UNITS/HOUR OF TYPE 13 CARGO THAT CRANE TYPE CCC(29,13) CAN UNLOAD FROM TRUCK
 CCC(165,1), I=4-6 DELAY TIME (IN MINUTES) FOR CONSTRUCTION EQUIPMENT IN BSA
 CCC(166,1), I=4-6 DELAY TIME (IN MINUTES) FOR CONSTRUCTION EQUIPMENT IN AREAS OTHER THAN BSA
 CCC(167,1), I=4-6 DELAY TIME (IN MINUTES) BEFORE STARTING PERMANENT MSR CONSTRUCTION
 CCC(168,1), I=4-6 DELAY TIME (IN MINUTES) BEFORE STARTING LSA CONSTRUCTION

CAPGO HANDLING AND TRANSFORMATION INPUT MATRIX CCC

T MATRIX CCC

MALF00000 WT-01V										
POM/COLUMN	1	2	3	4	5	6	7	8	9	-
1	30	50	60	30	60	60	60	60	60	10
2	20	10	10	20	10	10	10	10	10	60
3	0	0	0	0	0	0	0	0	0	10
4	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0
6	60	60	60	2	2	2	2	2	2	0
7	11	12	13	21	21	21	21	21	21	4
8	2	30	30	1	1	1	1	1	1	0
9	30	30	30	10	10	10	10	10	10	0
10	60	50	50	10	10	10	10	10	10	0
11	1320	1320	1320	1320	1320	1320	1320	1320	1320	0
12	14	15	16	22	22	22	22	22	22	0
13	2	2	2	1	1	1	1	1	1	6
14	13	30	30	10	10	10	10	10	10	0
15	30	30	1320	1320	1320	1320	1320	1320	1320	900
16	30	30	30	23	23	23	23	23	23	0
17	1320	1320	0	1	1	1	1	1	1	0
18	10	19	0	2	2	2	2	2	2	0
19	2	2	0	14	16	15	0	0	0	0
20	30	30	0	1	1	1	720	0	0	0
21	1320	1320	0	12	12	12	0	0	0	0
22	30	30	0	22	22	22	0	0	0	0
23	0	0	0	1	1	1	0	0	0	0
24	0	0	0	10	10	10	0	0	0	0
25	240	240	0	24	26	24	24	26	24	0
26	0	0	0	1	1	1	1	1	1	0
27	0	0	0	10	10	10	10	10	10	0
28	0	0	0	12	12	12	12	12	12	0
29	0	0	0	0	0	0	1320	1320	1320	0
30	0	0	0	25	27	25	0	0	0	0
31	0	0	0	1	1	1	0	0	0	0
32	0	0	0	2	2	2	0	0	0	0
33	0	0	0	18	20	19	0	0	0	0
34	0	0	0	1	1	1	0	0	0	0
35	0	0	0	12	12	12	0	0	0	0
36	0	0	0	24	26	24	0	0	0	0
37	0	0	0	1	1	1	0	0	0	0
38	0	0	0	10	10	10	0	0	0	0
39	0	0	0	1320	1320	1320	0	0	0	0
40	0	0	0	22	22	22	0	0	0	0
41	0	0	0	1	1	1	0	0	0	0

N S R D R GPSS V/6000
HALLFORD MATRIX

CRM GPSS V/6000 VER. 1.2 PSR 412 04/25/79 14.42.03.

ROW/COLUMN	1	2	3	4	5	6	7	8	9	10
42	0	0	0	10	10	10	0	0	0	0
43	1320	1320	1320	1320	0	0	0	0	0	0
44	20	31	32	33	0	0	0	0	0	0
45	1	1	1	1	0	0	0	0	0	0
46	30	30	30	30	0	0	0	0	0	0
47	1320	1320	1320	1320	0	0	0	0	0	0
48	12	12	12	12	0	0	0	0	0	0
49	0	0	0	1320	1320	1320	1320	1320	1320	0
50	0	0	0	0	0	0	0	0	0	0

HALLFORD MATRIX

ROW/COLUMN	11	12	13
1	60	60	60
2	10	10	10
3	0	0	0
4	0	0	0
5	0	0	0
6	4	4	4
7	0	0	0
8	0	0	0
9	0	0	0
10	0	0	0
11	0	0	0
12	0	0	0
13	0	0	0
14	10500	10000	27254
15	0	500	27754
16	10	0	0
17	2	0	0
18	400	0	0
19	600	0	0
20	0	20	20
21	0	1	1
22	0	2	2
23	0	1	1
24	0	400	400
25	0	30	30
26	0	1	1
27	0	2	2
28	0	2100	2100
29	0	29	29
30	0	1	1
31	0	2	2
32	120	360	0
33	0	0	0
34	0	0	0
35	0	0	0
36	0	0	0
37	0	0	0
38	0	0	0

N S R D C GPSS V/6000 2
 HALF HOUR MATRY

CRM GPSS V/6000 VER. 1.2 PSR 412

04/25/79 14.42.03.

ROW/CH UMN	11	12	13
39	0	0	0
40	0	0	0
41	0	0	0
42	0	0	0
43	0	0	0
44	0	0	0
45	0	0	0
46	0	0	0
47	0	0	0
48	0	0	0
49	0	0	0
50	0	0	0

N S R N C	CRM 6PSS V/6000	VER. 1.2 PSR 412	04/25/79	14.42.04.
BLANK	OPERATION A, P, C, D, E, F, G, H, I, J	COMMENTS		
NUMBER	*LOC	RETURN CONTROL TO OPERATING SYSTEM		
	FND	NATURE	191	2737
				CARD NUMBER

REFERENCES

1. Schriber, T.J., "Simulation Using GPSS," John Wiley and Sons, New York (1974).
2. Clark, D.E. and M. Gray, "REACT II Computer Program User's Manual," Computation, Mathematics and Logistics Department Research and Development Report DTNSRDC-78/095 (Nov 1978).

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